8. References

Changes in this Year's Inventory

AAPFCO (1999) Commercial Fertilizers 1999. Association of American Plant Food Control Officials, University of Kentucky, Lexington, KY.AAPFCO

AAPFCO (1998) *Commercial Fertilizers 1998*. Association of American Plant Food Control Officials, University of Kentucky, Lexington, KY.

AAPFCO (1997) *Commercial Fertilizers 1997*. Association of American Plant Food Control Officials, University of Kentucky, Lexington, KY.

AAPFCO (1996) *Commercial Fertilizers 1996*. Association of American Plant Food Control Officials, University of Kentucky, Lexington, KY.

(1995) Commercial Fertilizers 1995. Association of American Plant Food Control Officials, University of Kentucky, Lexington, KY.

AGA (1999, 2000) *Personal Communication with Paul Pierson* (telephone: 202-824-7133). American Gas Association, Washington, DC.

AGA (1998, 1999) *Gas Facts 1990-1999*. American Gas Association, Washington, DC.

Anderson, S. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Steve Anderson, Agricultural Statistician, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. 31 May.

Barnard, G.W. and L.A. Kristoferson (1985) *Agricultural Residues as Fuel in the Third World.* Technical Report No. 5. Earthscan, London, UK.

BEA (2000) Unpublished BE-36 survey data, Bureau of Economic Analysis (BEA), U.S. Department of Commerce.

Birdsey, R.A. and Heath, L.S. (1995) "Carbon Changes in U.S. Forests." In: *Productivity of America's Forests and Climate Change*. Gen. Tech. Rep. RM-271. Rocky Mountain Forest and Range Experiment Station, Forest Service, U.S. Department of Agriculture, Fort Collins, CO, pp. 56-70.

C&EN (2000) "Facts and figures in the chemical industry." Chemical and Engineering News, June 26, 2000.

Carpenter, G.H. (1992) "Current Litter Practices and Future Needs." In: 1992 National Poultry Waste Management Symposium Proceedings, Blake, J.P., Donald, J.O., and Patterson, P.H., (eds.), pp. 268-273, Auburn University Printing Service, Auburn, AL.

Deal, P. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Peter B. Deal, Rangeland Management Specialist, Florida Natural Resource Conservation Service, 21 June.

DESC (2000) Unpublished data from the Defense Fuels Automated Management System (DFAMS), Defense Energy Support Center, Defense Logistics Agency, U.S. Department of Defense, Washington, DC.

DOC (2000) Unpublished "Report of Bunker Fuel Oil Laden on Vessels Cleared for Foreign Countries," Form-563, Foreign Trade Division, Bureau of the Census, U.S. Department of Commerce.

Donovan, K. and L. Baldwin (1999) Results of the AAMOLLY model runs for the Enteric Fermentation Model. University of California, Davis.

EIA (2000a) *Annual Energy Review 1999*. Energy Information Administration, U.S. Department of Energy, Washington, DC. July, DOE/EIA- 0384(99)-annual.

EIA (2000b) *Emissions of Greenhouse Gases in the United States 1999*. Energy Information Administration, U.S. Department of Energy, Washington, DC. Draft. October 5, 1999, DOE/EIA-0535(99)-annual.

EIA (2000c) *Fuel Oil and Kerosene Sales 1999*. Energy Information Administration, U.S. Department of Energy, Washington, DC, DOE/EIA-0535(99)-annual.

EIA (2000d) *Natural Gas Annual 1999*, DOE/EIA 0131(99)-annual, Energy Information Administration, U.S. Department of Energy, Washington, DC. October 2000.

EIA (2000e) *U.S. Coal Supply and Demand: 1999 Review*, U.S. Department of Energy, Energy Information Administration, Washington, DC, Table 1.

EIA (1999a) *Coal Industry Annual 1991-1998*. U.S. Department of Energy, Energy Information Administration, Washington, DC, Table 3.

EIA (1999b) Form EIA-767 "Steam Electric Plant Operation and Design Report." U.S. Department of Energy, Energy Information Administration. Washington, DC.

EPA (2000a) *Mobile6 Vehicle Emission Modeling Software*. U.S. Environmental Protection Agency, Office of Mobile Sources, EPA. Ann Arbor, Michigan.

EPA (2000b) *National Air Pollutant Emissions Trends Report, 1900-1999*, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.

EPA (1999) Characterization of Municipal Solid Waste in the US: 1998 Update. U.S. Environmental Protection Agency, Washington, DC.

EPA (1997) Estimates of Global Greenhouse Gas Emissions from Industrial and Domestic Wastewater Treatment. United States Environmental Protection Agency, Office of Policy, Planning, and Evaluation. EPA-600/R-97-091, Washington, DC, September, 1997.

EPA (1993) Anthropogenic Methane Emissions in the United States: Estimates for 1990, Report to Congress. Office of Air and Radiation, U.S. Environmental Protection Agency, Washington, DC.

ERG (2000) Calculations: Percent Distribution of Manure for Waste Management Systems. August.

Eve, M.D., Paustian, K., Follett, R., and Elliott, E.T. (2001) "An Inventory of Carbon Emissions and Sequestration in U.S. Cropland Soils." In: Lal, R. and McSweeney, K. (eds.) *Soil Carbon Sequestration and the Greenhouse Effect*. SSSA Special Publication, Madison, WI (in press).

Eve, M.D., Paustian, K., Follett, R., and Elliott, E.T. (2000) "A National Inventory of Changes in Soil Carbon from National Resources Inventory Data." In: Lal, R., Kimble, J.M., Follett, R.F., and Stewart, B.A. (eds.) *Assessment Methods for Soil Carbon*. Lewis Publishers, Boca Raton, FL.

FAO (2000) FAOSTAT Statistical Database, United Nations Food and Agriculture Organization. (Available on the Internet at http://apps.fao.org/lim500/nph-wrap.pl?FoodBalanceSheet&Domain=FoodBalanceSheet&Cacessed July 25, 2000)).

FHWA (1999) *Draft 1998 Highway Statistics*. Federal Highway Administration, U.S. Department of Transportation. Washington, DC, report FHWA-PL-96-023-annual.

Heath, L.S., Birdsey, R.A., Row, C., and Plantinga, A.J. (1996) "Carbon Pools and Fluxes in U.S. Forest Products." In: Apps, M.J. and Price, D.T. (eds.) *Forest Ecosystems, Forest Management and the Global Carbon Cycle*. Springer-Verlag, Berlin, pp. 271-278.

IPAA (1999) *The Oil & Gas Producing Industry in Your State 1990-1999*. Independent Petroleum Association of America.

IPCC (2000) Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories, Intergovernmental Panel on Climate Change, National Greenhouse Gas Inventories Programme, Montreal, IPCC-XVI/Doc. 10 (1.IV.2000), May 2000.

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Johnson, Dan (2000) Telephone conversation between Lee-Ann Tracy of ERG and Dan Johnson, State Water Management Engineer, California Natural Resource Conservation Service, 23 June.

Johnson, D. (1999) Personal Communication, Colorado State University, Fort Collins, 1999.

Ketzis, J. (1999) Telephone and Email conversations between Marco Alcaraz of ICF Consulting and Jen Ketzis regarding the Animal Science Department Computer Model, Cornell University, June/July.

Lange, J. (2000) Telephone conversation between Lee-Ann Tracy of ERG and John Lange, Agricultural Statistician, U. S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC, 8 May.

Martin, J. (2000) "A Comparison of the Performance of Three Swine Waste Stabilization Systems," paper submitted to Eastern Research Group, Inc. October, 2000.

Miller, P. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Paul Miller, Iowa Natural Resource Conservation Service, 12 June.

Milton, B. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Bob Milton, Chief of Livestock Branch, U.S. Department of Agriculture, National Agriculture Statistics Service, 1 May.

Najita, T. (2000) Telephone conversation between Payton Deeks of ICF Consulting and Theresa Najita, Air Pollution Specialist, California Air Resouces Board, 17 August.

Poe, G., Bills, N., Bellows, B., Crosscombe, P., Koelsch, R., Kreher, M., and Wright, P. (1999) Staff Paper *Documenting the Status of Dairy Manure Management in New York: Current Practices and Willingness to Participate in Voluntary Programs*, Department of Agricultural, Resource, and Managerial Economics, Cornell University, Ithaca, New York, September.

Powell, D.S., Faulkner, J.L., Darr, D.R., Zhu, Z., and MacCleery, D.W. (1993) *Forest Resources of the United States, 1992*. Gen. Tech. Rep. RM-234. Rocky Mountain Forest and Range Experiment Station, Forest Service, U.S. Department of Agriculture, Fort Collins, CO, 132 pp.

Safley (2000) Telephone conversation between Deb Bartram of ERG and L.M. Safley, President, Agri-Waste Technology, June and October.

Safley, L.M., Jr. and P.W. Westerman (1998) "Anaerobic Lagoon Biogas Recovery Systems." *Biological Wastes*. 27:43-62.

Safley, L.M., Jr. and P.W. Westerman (1992) "Performance of a Low Temperature Lagoon Digester." *Biological Wastes*. 9060-8524/92/S05.00.

Safley, L.M., Jr. and P.W. Westerman (1990) "Psychrophilic Anaerobic Digestion of Animal Manure: Proposed Design Methodology." *Biological Wastes*. 34:133-148.

Skog, K.E., and G.A. Nicholson (1998) "Carbon cycling through wood products: the role of wood and paper products in carbon sequestration." *Forest Products Journal* 48:75-83.

Smith, W.B., et al. (2000) 1997 Forest Resource Statistics Review Draft. USDA Forest Service. In review.

Smith, W.B. and Sheffield, R.M. (2000) 1997 RPA Assessment: The United States Forest Resource Current Situation (Final Statistics). Forest Service, U.S. Department of Agriculture. July 2000 Review Draft. Downloaded from http://www.srsfia.usfs.msstate.edu/wo/review.htm.

Stettler, D. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Don Stettler, Environmental Engineer, National Climate Center, Oregon Natural Resource Conservation Service, 27 June.

Strehler, A. and Stützle, W. (1987) "Biomass Residues". In: *Biomass*, Hall, D.O. and Overend, R.P. (eds.), pp. 75-102, John Wiley and Sons, Ltd. Chichester, UK.

Sweeten, J. (2000) Telephone conversation between Indra Mitra of ERG and John Sweeten, Texas A&M University, June 2000.

TVA (1994) Commercial Fertilizers 1994. Tennessee Valley Authority, Muscle Shoals, AL.

TVA (1993) Commercial Fertilizers 1993. Tennessee Valley Authority, Muscle Shoals, AL.

TVA (1992) Commercial Fertilizers 1992. Tennessee Valley Authority, Muscle Shoals, AL.

TVA (1991) Commercial Fertilizers 1991. Tennessee Valley Authority, Muscle Shoals, AL.

Turn, S.Q., Jenkins, B.M., Chow, J.C., Pritchett, L.C., Campbell, D., Cahill, T., and Whalen, S.A. (1997) "Elemental characterization of particulate matter emitted from biomass burning: Wind tunnel derived source profiles for herbaceous and wood fuels." *Journal of Geophysical Research* 102 (D3): 3683-3699.

UEP (1999) Voluntary Survey Results - Estimated Percentage Participation/Activity, Caged Layer Environmental Management Practices, Industry data submissions for EPA profile development, United Egg Producers and National Chicken Council. Received from John Thorne, Capitolink. June 2000.

U.S. Census Bureau (2000) Monthly Estimates of the United States Population: April 1, 1980 to July 1, 1999, Population Estimates Program, Population Division, U.S. Census Bureau, Washington, DC. (Available on the Internet at http://www.census.gov/population/estimates/nation/intfile1-1.txt (Accessed July 24, 2000).

USDA (2000a) 1997 National Resources Inventory. U.S. Department of Agriculture, Natural Resources Conservation Service, Washington, DC.

USDA (2000b) *Crop Production 1999 Summary*. National Agricultural Statistics Service, Agricultural Statistics Board, U.S. Department of Agriculture, Washington, DC.

USDA (2000c) *Hogs and Pig*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. March 24. (Data also available from http://www.nass.usda.gov:81/ipedb/).

USDA (2000d) Re-aggregated data from the National Animal Health Monitoring System's (NAHMS) Dairy '96 study provided by Stephen L. Ott of the U.S. Department of Agriculture, Animal and Plant Health Inspection Service. June 19.

USDA (2000e) Layers '99 – Part II: References of 1999 Table Egg Layer Management in the U.S., U.S. Department of Agriculture, Animal and Plant Health Inspection Service (APHIS), National Animal Health Monitoring System (NAHMS). January.

USDA (2000f) Published Estimates Database, U.S. Department of Agriculture, National Agricultural Statistics Service, Washington, DC. Downloaded from http://www.nass.usda.gov:81/ipedb/. September 26.

USDA (1999) *Sheep and Goats – Final Estimates 1994-1998*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January.

USDA (1998a) *Hogs and Pigs – Final Estimates 1993-97*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. December. (Data also available from http://www.nass.usda.gov:81/ipedb/).

USDA (1998b) Re-aggregated data from the National Animal Health Monitoring System's (NAHMS) Swine '95 study aggregated by Eric Bush of the U.S. Department of Agriculture, Centers for Epidemiology and Animal Health.

USDA (1996a) Agricultural Waste Management Field Handbook, National Engineering Handbook (NEH), Part 651, U.S. Department of Agriculture, Natural Resources Conservation Service. July.

USDA (1996b) Swine '95: Grower/Finisher Part II: Reference of 1995 U.S. Grower/Finisher Health & Management Practices, U.S. Department of Agriculture, Animal Plant Health and Inspection Service, Washington, DC. June.

USGS (1999) Minerals Yearbook: Crushed Stone Annual Report 1998. U.S. Geological Survey, Reston, VA.

USGS (1995) Minerals Yearbook: Crushed Stone Annual Report 1994. U.S. Geological Survey, Reston, VA.

Wright, P. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Peter Wright, Cornell University, College of Agriculture and Life Sciences, 23 June.

Executive Summary

BEA (2000) Department of Commerce/Bureau of Economic Analysis, National Income and Product Accounts. August 2000.

EIA (2000a) *Annual Energy Review 1999*, Table 1.3, June 2000. DOE/EIA-0384(97).

EIA (2000b) *Electric Power Annual 1999: Volume III*, Energy Information Administration, U.S. Department of Energy, Washington, DC, October. http://www.eia.doe.gov/cneaf/electricity/epav2/epav2.pdf>.

EIA (2000c) *Electric Power Annual 1999, Volume II*, Energy Information Administration, U.S. Department of Energy, Washington, D.C., DOE/EIA-0348(99)/2, October.

EIA (2000d) *Emissions of Greenhouse Gases in the United States 1999*, Energy Information Administration, U.S. Department of Energy, Washington, DC. DOE/EIA-0573(99) October.

EPA (2000) National Air Pollutant Emissions Trends Report, 1900-1999. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.

IPCC (1996) Climate Change 1995: The Science of Climate Change. Intergovernmental Panel on Climate Change; J.T. Houghton, L.G. Meira Filho, B.A. Callander, N. Harris, A. Kattenberg, and K. Maskell, eds.; Cambridge University Press. Cambridge, U.K.

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories. Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Keeling, C.D. and T.P. Whorf (2000) Atmospheric CO_2 records from sites in the SIO air sampling network. In Trends: A Compendium of Data on Global Change. Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory. Oak Ridge, TN.

Powell, D.S., J.L. Faulkner, D.R. Darr, Z. Zhu, and D.W. MacCleery (1993) *Forest Resources of the United States, 1992*. Gen. Tech. Rep. RM-234. Fort Collins, CO: Rocky Mountain Forest and Range Experiment Station, Forest Service, U.S. Department of Agriculture, 132 p.

U.S. Census Bureau (2000) U.S. Bureau of the Census Internet Release date April 11, 2000; revised June 28, 2000. http://www.census.gov/population/estimates/nation/populockest.txt.

Introduction

BEA (2000) Survey of Current Business. Bureau of Economic Analysis, Department of Commerce, Table 2A, p. 152, August. (Available on the internet at http://www.bea.doc.gov/bea/dn/st-tabs.htm.)

EIA (2000a) *Annual Energy Review 1999*. Energy Information Administration, U.S. Department of Energy, Washington, DC, DOE/EIA- 0384(97) July.

EIA (2000b) *Electric Power Annual 1999: Volume III*, Energy Information Administration, U.S. Department of Energy, Washington, DC, October. (Available on the internet at http://www.eia.doe.gov/cneaf/electricity/epav2/epav2.pdf).)

EIA (2000c) *Electric Power Annual 1999*, Volume II, Energy Information Administration, U.S. Department of Energy, Washington, D.C., DOE/EIA-0348(99)/2, October.

EIA (2000d) *Emissions of Greenhouse Gases in the United States 1999*, Energy Information Administration, U.S. Department of Energy, Washington, DC. DOE/EIA-0573(99) October.

EPA (2000) *National Air Pollutant Emissions Trends Report, 1900-1999*. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.

FCCC (1996) Report of the Conference of the Parties, July 1996. Addendum; Part Two: Action taken by the Conference of the Parties at its second session; Decision 9/CP.2, Communications from Parties included in Annex I to the Convention: guidelines, schedule and process for consideration; Annex: Revised Guidelines for the Preparation of National Communications by Parties Included in Annex I to the Convention; p. 18.

IPCC (1999) *Aviation and the Global Atmosphere*. Intergovernmental Panel on Climate Change; Penner, J.E., et al., eds.; Cambridge University Press. Cambridge, U.K.

IPCC (1996) Climate Change 1995: The Science of Climate Change. Intergovernmental Panel on Climate Change; J.T. Houghton, L.G. Meira Filho, B.A. Callander, N. Harris, A. Kattenberg, and K. Maskell, eds.; Cambridge University Press. Cambridge, U.K.

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories. Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Jacobson, M.Z. (2001) Strong Radiative Heating Due to the Mixing State of Black Carbon in Atmospheric Aerosols. Nature. In press.

Keeling, C.D. and T.P. Whorf (2000) Atmospheric CO_2 records from sites in the SIO air sampling network. In Trends: A Compendium of Data on Global Change. Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory. Oak Ridge, TN.

Keeling, C.D. and T.P. Whorf (1999) A Compendium of Data on Global Change. Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, Oak Ridge, TN. (Available on the internet at http://cdiac.esd.ornl.gov/trends/co2/contents.htm.)

UNEP/WMO (2000) *Information Unit on Climate Change*. Framework Convention on Climate Change (Available on the internet at http://www.unfccc.de>.)

U.S. Census Bureau (2000) Historical National Population Estimates: July 1, 1900 to July 1, 1999. Department of Commerce, Washington DC. June 28, 2000. (Available on the internet at http://www.census.gov/population/estimates/nation/popclockest.txt.)

Energy

Carbon Dioxide Emissions from Fossil Fuel Combustion

Air Force (1998) Air Force Document AFPAM23-221. 1 May.

BEA (2000) Unpublished *BE-36 survey data*. Bureau of Economic Analysis (BEA), U.S. Department of Commerce.

Bechtel (1993) *A Modified EPRI Class II Estimate for Low NO_x Burner Technology Retrofit.* Prepared for Radian Corporation by Bechtel Power, Gaithersburg, Maryland. April.

DESC (2000) Unpublished data from the Defense Fuels Automated Management System (DFAMS), Defense Energy Support Center, Defense Logistics Agency, U.S. Department of Defense, Washington, DC.

DOC (2000) Unpublished "Report of Bunker Fuel Oil Laden on Vessels Cleared for Foreign Countries." Form-563, Foreign Trade Division, Bureau of the Census, U.S. Department of Commerce.

DOE (2000) *Transportation Energy Data Book*. Office of Transportation Technologies, Edition 20, Table 2.5 Center for Transportation Analysis, Energy Division, Oak Ridge National Laboratory, ORNL-6959.

DOE (1999) *Transportation Energy Data Book*. Office of Transportation Technologies, Edition 19, Table 2.5 Center for Transportation Analysis, Energy Division, Oak Ridge National Laboratory, ORNL-6958.

DOE (1998) *Transportation Energy Data Book*. Office of Transportation Technologies, Edition 18, Table 2.6 Center for Transportation Analysis, Energy Division, Oak Ridge National Laboratory, ORNL-6941.

DOE (1997) *Transportation Energy Data Book*. Office of Transportation Technologies, Edition 17, Table 2.9 Center for Transportation Analysis, Energy Division, Oak Ridge National Laboratory, ORNL-6919.

DOE (1996) *Transportation Energy Data Book*. Office of Transportation Technologies, Edition 16, Table 2.10, Center for Transportation Analysis, Energy Division, Oak Ridge National Laboratory, ORNL-6898.

DOE (1995) *Transportation Energy Data Book*. Office of Transportation Technologies, Edition 15, Table 2.7. Center for Transportation Analysis, Energy Division, Oak Ridge National Laboratory, ORNL-6865.

DOE (1994) *Transportation Energy Data Book*. Office of Transportation Technologies, Edition 14, Table 2.6 & 2.7. Center for Transportation Analysis, Energy Division, Oak Ridge National Laboratory, ORNL-6798.

DOE (1993) *Transportation Energy Data Book*. Office of Transportation Technologies, Edition 13, Table 2.7. Center for Transportation Analysis, Energy Division, Oak Ridge National Laboratory, ORNL-6743.

DOE and EPA (1999) Report to the President on Carbon Dioxide Emissions from the Generation of Electric Power in the United States, U.S. Department of Energy and U.S. Environmental Protection Agency, 15 October.

DOT/BTS (2000) *Fuel Cost and Consumption*, Federal Aviation Administration, U.S. Department of Transportation, Bureau of Transportation Statistics, Washington, DC, DAI-10.

EIA (2000a) *Annual Energy Review 1999*. Energy Information Administration, U.S. Department of Energy, Washington, DC. July, DOE/EIA- 0384(99)-annual.

EIA (2000b) *Electric Power Annual 1999*, Volume I. Energy Information Administration, U.S. Department of Energy, Washington, DC, DOE/EIA-0348(99)/1-annual.

EIA (2000c) *Emissions of Greenhouse Gases in the United States 1999*. Energy Information Administration, U.S. Department of Energy, Washington, DC. Draft. October 5, 1999, DOE/EIA-0535(99)-annual.

EIA (2000d) *Fuel Oil and Kerosene Sales 1999*. Energy Information Administration, U.S. Department of Energy, Washington, DC, DOE/EIA-0535(99)-annual.

EIA (1999) *International Energy Annual 1996*. Energy Information Administration, U.S. Department of Energy, Washington, DC, DOE/EIA-0219(96)-annual.

EIA (1998) *U.S. Coal Supply and Demand: 1997 Review:* by *B.D. Hong*. Energy Information Administration, U.S. Department of Energy, Washington, DC.

EIA (1997) *Manufacturing Consumption of Energy 1994*, DOE/EIA-0512(94), Energy Information Administration, U.S. Department of Energy, Washington, DC, December.

FRB (2000) "Industrial Production and Capacity Utilization," Federal Reserve Board, Federal Reserve Statistical Release, G.17, accessed 18 December 2000, < http://www.federalreserve.gov/Releases/G17/>

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Marland, G. and A. Pippin (1990) "United States Emissions of Carbon Dioxide to the Earth's Atmosphere by Economic Activity." Energy Systems and Policy, 14(4):323.

U.S. Census Bureau (2000) Historical National Population Estimates: July 1, 1900 to July 1, 1999. Department of Commerce, Washington DC. June 28, 2000. (Available on the internet at http://www.census.gov/population/estimates/nation/popclockest.txt.)

Carbon Stored in Products from Non-Energy Uses of Fossil Fuels

APC (2000) as reported in "Facts & Figures for the Chemical Industry," *Chemical and Engineering News*, Vol. 78 (26), June 26, 2000. American Plastics Council. Arlington, VA. Available online at http://www.plasticsindustry.org/industry/stat3.htm

CMA (1999) U.S. Chemical Industry Statistical Handbook. Chemical Manufacturer's Association. Washington, DC.

Connolly, Una (2000) Personal communication between Suzanne Bratis of ICF Consulting and Una Connelly of National Asphalt Pavement Association. August 2000. (Tel: 859-288-4960).

EIA (2000) *Annual Energy Review 1998*. DOE/EIA-0384(99)- unpublished full table presentation (table 1.15), Energy Information Administration, U.S. Department of Energy, Washington, DC.

EIIP (1999) Methods for Estimating Greenhouse Gas Emissions from Combustion of Fossil Fuels, Emissions Inventory Improvement Program: State and Territorial Air Pollution Program Administrators/Association of Local Air Pollution Control Officials and U.S. Environmental Protection Agency, EIIP Document Series Volume VIII, Chapter 1. (STAPPA/ALAPCO/EPA), Washington DC, August 2000. http://www.epa.gov/ttn/chief/eiip/viii01.pdf (Accessed August 28, 2000).

EIIP (1998) "Area Sources" *Asphalt Paving*, Emissions Inventory Improvement Program: State and Territorial Air Pollution Program Administrators/Association of Local Air Pollution Control Officials and U.S. Environmental Protection Agency, EIIP Document Series Volume III, Chapter 17. (STAPPA/ALAPCO/EPA), Washington DC, August 2000. http://www.epa.gov/ttn/chief/eiip/iii17.pdf (Accessed July 27, 2000).

Eldredge-Roebuck (2000) Personal communication between Joe Casola of ICF Consulting and Brandt Eldredge-Roebuck of the American Plastics Council. July, 11 2000. (Tel: 703-253-0611).

EPA (2000a) *National Air Quality and Emissions Trends Report*, 1900-1999. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.

EPA (2000b). *Toxics Release Inventory*, 1998. U.S. Environmental Protection Agency, Office of Environmental Information, Office of Information Analysis and Access, Washington, DC. Available online at http://www.epa.gov/triexplorer/chemical.htm

EPA (2000c) Hot Mix Asphalt Plants Emission Assessment Report (Draft Report), AP-42. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, June. http://www.epa.gov/ttn/emc/asphalt/ea-report.pdf (Accessed July 25, 2000).

EPA (1999) Pesticides Industry Sales and Usage: 1996 and 1997 Market Estimates. U.S. Environmental Protection Agency, Office of Prevention, Pesticides and Toxic Substances, Washington, DC.

EPA (1995) *Asphalt Paving Operations, AP-42*, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.

FEB (2000) as reported in "Facts & Figures for the Chemical Industry," *Chemical and Engineering News*, Vol. 78 (26), June 26, 2000. Fiber Economics Bureau. Washington, DC. Available online at http://www.fibersource.com/f-info/fiber%20production.htm

IISRP (2000) as reported in "Facts & Figures for the Chemical Industry," *Chemical and Engineering News*, Vol. 78 (26), June 26, 2000. International Institute of Synthetic Rubber Producers. Houston, Texas. Available online in IISRP's February 18, 2000, News Release: http://www.iisrp.com/Press%20Releases/ASPR2000-2004.PDF

James, Alan (2000) Personal communication between Suzanne Bratis of ICF Consulting and Alan James of Akzo Nobel Coatings, Inc. July 2000. (Tel: 614-294-3361).

Kelly, Peter (2000) Personal communication between Tom Smith of ICF Consulting and Peter Kelly of Asphalt Roofing Manufacturers Assoication. August 2000. (Tel: 301-348-2002).

Marland, G. and Rotty, R.M. (1984) "Carbon dioxide emissions from fossil fuels: a procedure for estimation and results for 1950-1982." *Tellus*. 36B, 4, 232-261.

Rinehart, T. (2000) Personal communication between Thomas Rinehart of U.S. Environmental Protection Agency, Office of Solid Waste, and Randall Freed of ICF Consulting. July 2000. (Tel: 703-308-4309).

U.S. Census Bureau (1999) 1997 Economic Census, Manufacturing - Industry Series, Petroleum Lubricating Oil and Grease Manufacturing, document number EC97M-3241D, and Petroleum Refining, document number EC97M-3241A (2 reports).

Stationary Combustion (excluding CO₂)

EIA (2000) *Annual Energy Review 1999*. Energy Information Administration, U.S. Department of Energy, Washington, DC, DOE/EIA- 0384(99)-annual.

EPA (2000) *National Air Pollutant Emissions Trends,* 1900-1999. Emission Factors and Inventory Group, Office of Air Quality Planning and Standards, EPA. Research Triangle Park, NC.

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Mobile Combustion (excluding CO₂)

Barton, Peter and Jackie Simpson (1994) "The effects of aged catalysts and cold ambient temperatures on nitrous oxide emissions." Mobile Source Emissions Division (MSED), Environment Canada, MSED Report #94-21.

BEA (2000) Unpublished *BE-36 survey data*. Bureau of Economic Analysis (BEA), U.S. Department of Commerce.

Dasch, Jean Muhlbaler (1992) *Journal of the Air and Waste Management Association*. "Nitrous Oxide Emissions from Vehicles," 42(1):63-67, January.

DESC (2000) Unpublished data from the Defense Fuels Automated Management System (DFAMS), Defense Energy Support Center, Defense Logistics Agency, U.S. Department of Defense, Washington, DC.

DOC (2000) Unpublished "Report of Bunker Fuel Oil Laden on Vessels Cleared for Foreign Countries." Form-563, Foreign Trade Division, Bureau of the Census, U.S. Department of Commerce.

DOT/BTS (2000) *Fuel Cost and Consumption*, Federal Aviation Administration, U.S. Department of Transportation, Bureau of Transportation Statistics, Washington, DC, DAI-10.

EIA (2000a) *Annual Energy Review*. Energy Information Administration, U.S. Department of Energy. Washington, DC. July, DOE/EIA-0384(99).

EIA (2000b) *Fuel Oil and Kerosene Sales 1999*. Energy Information Administration, U.S. Department of Energy, Washington, DC, DOE/EIA-0535(99)-annual.

EPA (2000a) *Mobile6 Vehicle Emission Modeling Software*. U.S. Environmental Protection Agency, Office of Mobile Sources, EPA. Ann Arbor, Michigan.

EPA (2000b) *National Air Pollutant Emissions Trends,* 1900-1999. U.S. Environmental Protection Agency, Emission Factors and Inventory Group, Office of Air Quality Planning and Standards. Research Triangle Park, NC.

EPA (2000c) Unpublished vehicle miles traveled data from the Office of Air Quality Planning and Standards, Environmental Protection Agency, Research Triangle Park, NC.

EPA (1998) Emissions of Nitrous Oxide from Highway Mobile Sources: Comments on the Draft Inventory of U.S. Greenhouse Gas Emissions and Sinks, 1990-1996. Office of Mobile Sources, Assessment and Modeling Division, August, EPA420-R-98-009. (Available on the internet at http://www.epa.gov/oms/climate.htm.)

EPA (1997) *Mobile Source Emission Factor Model (MOBILE5a)*. U.S. Environmental Protection Agency, Office of Mobile Sources, EPA. Ann Arbor, Michigan.

FAA (2000) FAA Aerospace Forecasts, Fiscal Years 2000-2011. Federal Aviation Administration, U.S. Department of Transportation, Washington, DC. Table 29: General Aviation Aircraft Fuel Consumption. (Available on the internet at http://www.api.faa.gov/foreca00/tabofcon.html).)

FHWA (1999) *Draft 1998 Highway Statistics*. Federal Highway Administration, U.S. Department of Transportation. Washington, DC, report FHWA-PL-96-023-annual.

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Marland, G. and A. Pippin (1990) "United States Emissions of Carbon Dioxide to the Earth's Atmosphere by Economic Activity," *Energy Systems and Policy*, 14(4):323.

Prigent, Michael and Gerard De Soete (1989) "Nitrous oxide N_2O in engines exhaust gases 3 4a first appraisal of catalyst impact," Society of Automotive Engineers, SAE Paper 890492.

Smith, Lawrence R. and Penny M. Carey (1982) "Characterization of exhaust emissions from high mileage catalyst-equipped automobiles," Society of Automotive Engineers, SAE Paper 820783.

Urban, Charles M. and Robert J. Garbe (1980) "Exhaust Emissions from Malfunctioning Three-Way Catalyst-Equipped Automobiles," Society of Automotive Engineers, SAE Paper 79696.

Weaver, Christopher S. and Lit-Mian Chan (1996) "Mobile source emission factors for global warming gases," Draft Final Report, 24 June, submitted to ICF, Inc. by Engine, Fuel, and Emissions Engineering, Inc., Sacramento, CA.

Coal Mining

EIA (1999) *Coal Industry Annual 1991-1998*. U.S. Department of Energy, Energy Information Administration, Washington, DC, Table 3.

EPA (1993) Anthropogenic Methane Emissions in the United States: Estimates for 1990, Report to Congress. U.S. Environmental Protection Agency, Air and Radiation, April.

EIA (2000) *U.S. Coal Supply and Demand: 1999 Review*, U.S. Department of Energy, Energy Information Administration, Washington, DC, Table 1.

Mutmansky, Jan M. and Yanebi Wang (2000, in press) *Analysis of Potential Errors in Determination of Coal Mine Annual Methane Emissions*, Mineral Resources Engineering, Vol. 9, No. 4, December, 2000.

Natural Gas Systems

AGA (1999, 2000) Personal Communication with Paul Pierson (telephone: 202-824-7133). American Gas Association, Washington, DC.

AGA (1998, 1999) *Gas Facts 1990-1999*. American Gas Association, Washington, DC.

DOI (1998, 1999, 2000) Personal Communication with Mary Hoover (telephone: 703-787-1028), Minerals Management Service, U.S. Department of Interior, Washington, DC.

DOI (1997) Offshore Development Activity. U.S. Department of Interior, Minerals Management Service Internet site. (Available on the Internet at http://www.mms.gov).

EIA (1999) *Natural Gas Monthly July 1999*, Energy Information Administration, U.S. Department of Energy. DOE/EIA-0130 (99/07). Washington, DC. (Available on the Internet at http://www.eia.doe.gov).

EIA (1998) *Natural Gas Annual 1997*. Energy Information Administration, U.S. Department of Energy. DOE/EIA-0131(98). Washington, DC. (Available on the Internet at http://www.eia.doe.gov.)

EPA/GRI (1996) *Methane Emissions from the Natural Gas Industry, Volume 1: Executive Summary.* Prepared by Harrison, M., T. Shires, J. Wessels, and R. Cowgill, eds. Radian International LLC for National Risk Management Research Laboratory, Air Pollution Prevention and Control Division, Research Triangle Park, NC, EPA-600/R-96-080a.

GSAM (1997) Gas Systems Analysis Model. Federal Energy Technology Center, U.S. Department of Energy. Washington, DC.

IPAA (1998, 1999) *The Oil & Gas Producing Industry in Your State 1990-1999*. Independent Petroleum Association of America.

OPS (2000) Personal Communication with Roger Little (202-266-4595), Office of Pipeline Safety, Department of Transportation, Washington, DC.

PennWell Corporation (1999, 2000) *Oil & Gas Journal*. PennWell Corporation, Tulsa, OK.

Petroleum Systems

API (1997 and 1999) *Basic Petroleum Data Book*. American Petroleum Institute, Washington, DC.

API (1996) Calculation Workbook for Oil and Gas Production Equipment Fugitive Emissions. American Petroleum Institute; Publication No. 4638.

API and GRI. E&P Tank Software Package, Version 1.0.

CAPP (1993) Options for Reducing Methane and VOC Emissions from Upstream Oil & Gas Operations. Canadian Association of Petroleum Producers, Canada.

CAPP (1992) A Detailed Inventory of CH_4 and VOC Emissions From Upstream Oil & Gas Operations in Alberta. Canadian Association of Petroleum Producers, Canada. Vols. 1-3. March 1992.

DOS (1997) Climate Action Report: 1997 Submission of the United States of America Under the United Nations Framework Convention on Climate Change. U.S. Department of State, Washington, DC.

Doud, Ted. Personal communication. Pipeline Systems Incorporated, Walnut Creek, California.

EIA (1998) *Petroleum Supply Annual 1990-1998*. Energy Information Administration, U.S. Department of Energy, Washington, DC.

EIA (1997) *Monthly Energy Review*. Energy Information Administration, U.S. Department of Energy, Washington, DC. (Available on the Internet at www.eia.doe.gov/emeu/mer).

EIA (1996) *Emissions of Greenhouse Gases in the United States 1995*. Energy Information Administration, U.S. Department of Energy, Washington, DC.

EIA (1995) U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, Annual Report 1990-1997. Energy Information Administration, U.S. Department of Energy, Washington, DC.

Energy Resources Company (1977) Atmospheric Emissions from Offshore Oil and Gas Production and Development. Prepared for EPA. June 1977.

Entropy Limited (1989) *Aboveground Storage Tank Survey*. Prepared for the American Petroleum Institute. April 1989.

EPA (1999) Estimates of Methane Emissions from the U.S. Oil Industry (Draft Report). Office of Air and Radiation, U.S. Environmental Protection Agency, Washington, DC.

EPA (1997) *Installing Vapor Recovery Units on Crude Oil Storage Tanks*. Natural Gas STAR Program, draft Lessons Learned. Office of Air and Radiation, U.S. Environmental Protection Agency, Washington, DC.

EPA (1996) Best Management Practice III. Natural Gas STAR 1996 Workshop and Implementation Guide, Office of Air and Radiation, U.S. Environmental Protection Agency, Washington, DC.

EPA (1995) *Compilation of Air Pollution Emission Factors*. Office of Air and Radiation, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina. AP-42.

EPA (1993a) Anthropogenic Methane Emissions in the US: Estimates for 1990, Report to Congress. Office of Air and Radiation, U.S. Environmental Protection Agency, Washington, DC.

EPA (1993b) Opportunities to Reduce Anthropogenic Methane Emissions in the United States, Report to Congress. Office of Air and Radiation, U.S. Environmental Protection Agency, Washington, DC.

Gallagher, Terry (1999) Personal Communication. Chicago Bridge and Iron. July 1999.

ICF Kaiser International (1996) Estimation of Activity Factors for the Natural Gas Exploration and Production Industry in the United States. Prepared for the Environmental Protection Agency. August 1996.

MMS (1999) Personal communication on 8/31/99. Minerals Management Service, U.S. Department of the Interior, New Orleans, LA.

MMS (1995) *Gulf of Mexico Air Quality Study*. Final Report. Minerals Management Service, U.S. Department of the Interior, Washington, DC.

ODS (1999) Personal communication on 9/21/99. Offshore Data Services, Houston. TX.

OGJ (1998a) *Oil and Gas Journal 1990-1998*, Pipeline Economics Issue, late August.

OGJ (1998b) Oil and Gas Journal 1990-1998, Worldwide Refining Issue, late December.

Pipeline Systems Incorporated (1989) Annual Methane Emission Estimate of the Natural Gas and Petroleum Systems in the US. Prepared for ICF Incorporated, Washington, DC.

Radian (1996a) *Methane Emissions from the Natural Gas Industry, V7: Blow and Purge Activities.* Prepared for the Gas Research Institute and EPA. April 1996.

Radian (1996b) *Methane Emissions from the Natural Gas Industry, V11: Compressor Driver Exhaust.* Prepared for GRI and EPA. April 1996.

Radian (1996c) *Methane Emissions from the Natural Gas Industry, V12: Pneumatic Devices.* Prepared for GRI and EPA. April 1996.

Radian (1996d) *Methane Emissions from the Natural Gas Industry, V13: Chemical Injection Pumps.* Prepared for GRI and EPA. April 1996.

Radian (1996e) *Methane Emissions from the US Petro-leum Industry*. Draft. Prepared for GRI and EPA. June 1996.

Radian (1996f) Methane and Carbon Dioxide Emissions Estimate From U.S. Petroleum Sources. Prepared for API. July 1996.

Radian (1992) *Global Emissions of Methane from Petroleum Sources (#DR 140)*. Prepared for American Petroleum Institute, Washington, DC.

Radian (1977) Revision of Emission Factors for Petroleum Refining. Prepared for EPA. October 1977.

Rayman, Ron (1997) Personal communication. Dresser Texsteam, Houston, Texas (manufacturer of chemical injection pumps).

Star Environmental (1993) Fugitive Hydrocarbon Emissions from Oil and Gas Production Operations. Prepared for API. API Document No 4589. December 1993.

Star Environmental (1994) *Emission Factors for Oil & Gas Operations*. Prepared for API. API Document No. 4615. December 1994.

Star Environmental (1996) Calculation Workbook for Oil and Gas Production Equipment Fugitive Emissions. Prepared for API. API Document No. 4638. July 1996.

True, Warren R. "U.S. Pipelines Continue Gains into 1996." *Oil & Gas Journal*, 25 November 1996: 39-58.

United States Army Corps of Engineers (1995, 1996, and 1997) *Waterborne Commerce of the United States 1995, Part 5: National Summaries*. U.S. Army Corps of Engineers, Washington, DC.

Natural Gas Flaring and Criteria Pollutant Emissions from Oil and Gas Activities

Barns, D. and Edmonds, J. (1990) "An Evaluation of the Relationship Between the Production and Use of Energy and Atmospheric Methane Emissions." DOE/NBB-0088P. Pacific Northwest Laboratory. Richland, WA.

EIA (2000) *Natural Gas Annual 1999*, DOE/EIA 0131(99)-annual, Energy Information Administration, U.S. Department of Energy, Washington, DC. October 2000.

EPA (2000) *National Air Pollutant Emissions Trends*, 1900-1999. U.S. Environmental Protection Agency, Emission Factors and Inventory Group, Office of Air Quality Planning and Standards. Research Triangle Park, NC.

International Bunker Fuels

BEA (2000) Unpublished BE-36 survey data, Bureau of Economic Analysis (BEA), U.S. Department of Commerce.

DESC (2000) Unpublished data from the Defense Fuels Automated Management System (DFAMS), Defense Energy Support Center, Defense Logistics Agency, U.S. Department of Defense, Washington, DC.

DOC (2000) Unpublished "Report of Bunker Fuel Oil Laden on Vessels Cleared for Foreign Countries," Form-563, Foreign Trade Division, Bureau of the Census, U.S. Department of Commerce.

DOT/BTS (2000) *Fuel Cost and Consumption*, monthly reports, DAI-10, Federal Aviation Administration, U.S. Department of Transportation, Washington, DC.

EIA (2000) *Annual Energy Review*, DOE/EIA-0384(99). Energy Information Administration, U.S. Department of Energy. Washington, DC. July.

EPA (1998) National Air Pollutant Emission Trends Procedures Document, Sections 1, 4, and 6, 1985-1996, Projections 1999-2010, Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency, EPA-454/R-98-008, June 1998.

FAA (2000) FAA Aerospace Forecasts, Fiscal Years 2000-2011. Federal Aviation Administration, U.S. Department of Transportation, Washington, DC. Table 29: General Aviation Aircraft Fuel Consumption. (Available on the internet at http://www.api.faa.gov/foreca00/tabofcon.html).)

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

NASA (1996) Scheduled Civil Aircraft Emission Inventories for 1992: Database Development and Analysis, Prepared for Langley Research Center, NASA Contractor Report # 4700, April.

USAF (1998) U.S. Air Force document AFPAM23-221, May 1, 1998.

Wood Biomass and Ethanol Consumption

EIA (2000) *Annual Energy Review*. Energy Information Administration, U.S. Department of Energy. Washington, DC. July. Tables 10.2 and Tables 10.3. DOE/EIA-0384(98).

EIA (1997) *Renewable Energy Annual*. Energy Information Administration, U.S. Department of Energy. Washington, DC. March. DOE/EIA-0603(96).

EIA (1994) *Estimates of U.S. Biomass Energy Consumption 1992*. Energy Information Administration, U.S. Department of Energy. Washington, DC. May. DOE/EIA-0548(92).

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

OTA (1991) Changing by Degrees: Steps to Reduce Greenhouse Gases. Office of Technology Assessment, U.S. Government Printing Office. Washington, DC. February. OTA-0-482.

Industrial Processes

Cement Manufacture

IPCC (2000) Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories, Intergovernmental Panel on Climate Change, National Greenhouse Gas Inventories Programme.

IPCC (1996) Climate Change 1995: The Science of Climate Change, Intergovernmental Panel on Cliamte Change; J.T. Houghton, L.G. Meira Filho, B.A. Callander, N. Harris, A. Kattenberg, and K. Maskell, eds.; Cambridge University Press. Cambridge, U.K.

USGS (2000) *Mineral Industry Surveys*: Cement in June 2000. U.S. Geological Survey, Reston, VA.

USGS (1999) Mineral Yearbook: Cement Annual Report 1998. U.S. Geological Survey, Reston, VA.

USGS (1998) Minerals Yearbook: Cement Annual Report 1997. U.S. Geological Survey, Reston, VA.

USGS (1997) Minerals Yearbook: Cement Annual Report 1996. U.S. Geological Survey, Reston, VA.

USGS (1996) Minerals Yearbook: Cement Annual Report 1995. U.S. Geological Survey, Reston, VA.

USGS (1995a) *Cement: Annual Report 1993*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC. June.

USGS (1995b) *Cement: Annual Report 1994*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC.

USGS (1992) *Cement: Annual Report 1990*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC. April.

Lime Manufacture

IPCC (2000) Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories, Intergovernmental Panel on Climate Change, National Greenhouse Gas Inventories Programme.

Males, E. (2001) Personal communication between Eric Males of the National Lime Association and Wiley Barbour of the U.S. Environmental Protection Agency. Memorandum dated February 20, 2001.

USGS (2000) Mineral Yearbook: Lime Annual Report 1999. U.S. Geological Survey, Reston, VA.

USGS (1999) Minerals Yearbook: Lime Annual Report 1998. U.S. Geological Survey, Reston, VA.

USGS (1998) Minerals Yearbook: Lime Annual Report 1997. U.S. Geological Survey, Reston, VA.

USGS (1997) Minerals Yearbook: Lime Annual Report 1996. U.S. Geological Survey, Reston, VA.

USGS (1996) Minerals Yearbook: Lime Annual Report 1995. U.S. Geological Survey, Reston, VA.

USGS (1995) Minerals Yearbook: Lime Annual Report 1994. U.S. Geological Survey, Reston, VA.

USGS (1994) *Lime: Annual Report 1993*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC. September.

USGS (1992) *Lime: Annual Report 1991*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC. November.

Limestone and Dolomite Use

EIA (1999) Form EIA-767 "Steam Electric Plant Operation and Design Report." U.S. Department of Energy, Energy Information Administration. Washington, DC.

EIA (1998) Form EIA-767 "Steam Electric Plant Operation and Design Report." U.S. Department of Energy, Energy Information Administration. Washington, DC.

EIA (1997) Form EIA-767 "Steam Electric Plant Operation and Design Report." U.S. Department of Energy, Energy Information Administration. Washington, DC.

USGS (2000) Mineral Industry Surveys: Crushed Stone and Sand and Gravel in the Fourth Quarter of 1999. U.S. Geological Survey, Reston, VA.

USGS (1999) Mineral Yearbook: Crushed Stone Annual Report 1998. U.S. Geological Survey, Reston, VA.

USGS (1998) *Mineral Yearbook: Crushed Stone Annual Report 1997*. U.S. Geological Survey, Reston, VA.

USGS (1997) Minerals Yearbook: Crushed Stone Annual Report 1996. U.S. Geological Survey, Reston, VA.

USGS (1996) Minerals Yearbook: Crushed Stone Annual Report 1995. U.S. Geological Survey, Reston, VA.

USGS (1995a) *Crushed Stone: Annual Report 1993*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC. January.

USGS (1995b) *Crushed Stone: Annual Report 1994*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC.

USGS (1993) *Crushed Stone: Annual Report 1991*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC. March.

Soda Ash Manufacture and Consumption

USGS (2000) Minerals Yearbook: Soda Ash Annual Report 1999. U.S. Geological Survey, Reston, VA.

USGS (1999) Minerals Yearbook: Soda Ash Annual Report 1998. U.S. Geological Survey, Reston, VA.

USGS (1998) Minerals Yearbook: Soda Ash Annual Report 1997. U.S. Geological Survey, Reston, VA.

USGS (1997) Minerals Yearbook: Soda Ash Annual Report 1996. U.S. Geological Survey, Reston, VA.

USGS (1996) Minerals Yearbook: Soda Ash Annual Report 1995. U.S. Geological Survey, Reston, VA.

USGS (1995) Minerals Yearbook: Soda Ash Annual Report 1994. U.S. Geological Survey, Reston, VA.

USGS (1994) *Soda Ash: Annual Report 1993*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC. July.

Carbon Dioxide Consumption

Freedonia Group, Inc. (1999a) Report 1091: Industrial Gases To 2003, Record 4, Carbon Dioxide Shipments and Production, 1989-2008. Cleveland, OH.

Freedonia Group, Inc. (1999b) Report 1091: Industrial Gases To 2003, Record 20, Enhanced Oil Recovery Applications for Carbon Dioxide, 1989-2008. Cleveland, OH.Protection Agency, August.

Freedonia Group, Inc. (1996) *Carbon Dioxide Merchant Markets Report 1990-1995*. Cleveland, OH.

Freedonia Group, Inc. (1994) *Industry Study No. 564: Carbon Dioxide*. The Freedonia Group, Incorporated. Cleveland, OH.

Freedonia Group Inc. (1991) *Carbon Dioxide*. Business Research Report B286. Cleveland, OH, November, p. 46.

Hangebrauk, R.P., Borgwardt, R.H., and Geron, C.D. (1992) *Carbon Dioxide Sequestration*. U.S. Environmental.

Ita, Paul (1997) Personal communication between Heike Mainhardt of ICF, Inc. and Paul Ita of Freedonia Group, Inc. October. (Tel: 216/921-6800).

Iron and Steel Production

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

USGS (2000) *Mineral Commodity Summaries*, 2000. U.S. Geological Survey, Reston, VA.

USGS (1999) Minerals Yearbook: Iron and Steel Annual Report 1998. U.S. Geological Survey, Reston, VA.

USGS (1998) Minerals Yearbook: Iron and Steel Annual Report 1997. U.S. Geological Survey, Reston, VA.

USGS (1997) Minerals Yearbook: Iron and Steel Annual Report 1996. U.S. Geological Survey. Reston, VA.

USGS (1996) Minerals Yearbook: Iron and Steel Annual Report 1995. U.S. Geological Survey. Reston, VA.

USGS (1995) Iron and Steel: *Annual Report 1994*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC.

Ammonia Manufacture

Census Bureau (2000) "Facts & Figures for the Chemical Industry," *Chemical and Engineering News*, Bureau of the Census, United States Department of Commerce, Vol. 78 (26), June 26, 2000.

Census Bureau (1998) "Facts & Figures for the Chemical Industry," *Chemical and Engineering News*, Bureau of the Census, United States Department of Commerce, Vol. 76 (26), June 1998.

EPA (1997) National Air Pollutant Emissions Trends Report, 1900-1996. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Ferroalloy Production

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

USGS (2000) Mineral Yearbook: Silicon Annual Report 1999. U.S. Geological Survey, Reston, VA.

USGS (1999) *Minerals Yearbook: Silicon Annual Report* 1998. U.S. Geological Survey, Reston, VA.

USGS (1998) Minerals Yearbook: Silicon Annual Report 1997. U.S. Geological Survey, Reston, VA.

USGS (1997) Minerals Yearbook: Silicon Annual Report 1996. U.S. Geological Survey, Reston, VA.

USGS (1996) *Minerals Yearbook: Silicon Annual Report* 1995. U.S. Geological Survey, Reston, VA.

USGS (1995) Minerals Yearbook: Silicon Annual Report 1994. U.S. Geological Survey, Reston, VA.

USGS (1994) *Silicon: Annual Report 1993*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC.

USGS (1993) *Silicon: Annual Report 1992*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC.

USGS (1992) *Silicon: Annual Report 1991*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC.

USGS (1991) *Silicon: Annual Report 1990*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC.

Petrochemical Production

CMA (1999) *U.S. Chemical Industry Statistical Handbook*. Chemical Manufacturer's Association. Washington, DC.

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Silicon Carbide Production

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

USGS (2000) Minerals Yearbook: Manufactured Abrasives Annual Report 1999. U.S. Geological Survey, Reston, VA.

USGS (1999) Minerals Yearbook: Manufactured Abrasives Annual Report 1998. U.S. Geological Survey, Reston, VA.

USGS (1998) Minerals Yearbook: Manufactured Abrasives Annual Report 1997. U.S. Geological Survey, Reston, VA.

USGS (1997) Minerals Yearbook: Manufactured Abrasives Annual Report 1996. U.S. Geological Survey, Reston, VA.

USGS (1996) Minerals Yearbook: Manufactured Abrasives Annual Report 1995. U.S. Geological Survey, Reston, VA.

USGS (1995) Minerals Yearbook: Manufactured Abrasives Annual Report 1994. U.S. Geological Survey, Reston, VA.

USGS (1994) *Manufactured Abrasives: Annual Report* 1993. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC.

USGS (1993) *Manufactured Abrasives: Annual Report* 1992. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC.

USGS (1992) *Manufactured Abrasives: Annual Report* 1991. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC.

USGS (1991) *Manufactured Abrasives: Annual Report* 1990. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC.

Adipic Acid Production

Chemical Market Reporter (1998) "Chemical Profile: Adipic Acid." Chemical Market Reporter, June 15, 1998.

C&EN (1996) "Facts and figures for the chemical industry." *Chemical and Engineering News*, 74(25):38. June 24.

C&EN (1995) "Production of Top 50 Chemicals Increased Substantially in 1994." *Chemical and Engineering News*. 73(15): 17. April 10.

C&EN (1994) "Top 50 Chemicals Production Rose Modestly Last Year." *Chemical & Engineering News*, 72(15): 13. April 11.

C&EN (1993) "Top 50 Chemicals Production Recovered Last Year." *Chemical & Engineering News*, 71(15): 11. April 12.

C&EN (1992) "Production of Top 50 Chemicals Stagnates in 1991." *Chemical and Engineering News*, 70(15): 17. April 13.

CW (1999) "Product focus: adipic acid/adiponitrile." *Chemical Week*, March 10, 1999, pg. 31.

Reimer, R.A., Slaten, C.S., Seapan, M., Koch, T.A., and Triner, V.G. (1999) "Implementation of Technologies for Abatement of N₂O Emissions Associated with Adipic Acid Manufacture." Presented at the Second International Symposium on Non-CO₂ Greenhouse Gases, September 8-10, 1999, Noordwijkerhout, the Netherlands.

Reimer, Ron (2000). Personal communication between Ron Reimer of DuPont, USA and Heike Mainhardt of ICF, Consulting, USA. September 12, 2000.

Reimer, Ron (1999). Personal communication between Ron Reimer of DuPont, USA and Heike Mainhardt of ICF, Consulting, USA. May 19, 1999.

Thiemens, M.H. and W.C. Trogler (1991) "Nylon production; an unknown source of atmospheric nitrous oxide." Science: 251:932-934.

Nitric Acid Production

C&EN (2000) "Facts and figures in the chemical industry." *Chemical and Engineering News*, June 26, 2000.

Choe, J.S., P.J. Cook, and F.P. Petrocelli (1993) "Developing N₂O Abatement Technology for the Nitric Acid Industry." Prepared for presentation at the 1993 ANPSG Conference. Air Products and Chemicals, Inc., Allentown, PA.

EPA (1997) Compilation of Air Pollutant Emission Factors, AP-42, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, October.

Reimer, R.A., R.A. Parrett, and C.S. Slaten (1992) *Abatement of N*₂*O Emissions Produced in Adipic Acid Manufacture*. Proceedings of the 5th International Workshop on Nitrous Oxide Emissions. Tsukuba, Japan. July 1-3.

Substitution of Ozone Depleting Substances

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Aluminum Production

Abrahamson, D. (1992) "Aluminum and Global Warming." *Nature*, 356: 484.

Drexel University Project Team (1996) *Energy Analysis of* 108 *Industrial Processes*. The Fairmont Press, Lilburn, GA, p. 282.

EPA (1993) Proceedings: Workshop on Atmospheric Effects, Origins, and Options for Control of Two Potent Greenhouse Gases: CF_4 and C_2F_6 , Sponsored by the U.S. Environmental Protection Agency, Global Change Division, Office of Air and Radiation, April 21-22.

Gariepy, B. and G. Dube (1992) "Treating Aluminum with Chlorine." U.S. Patent 5,145,514. Issued September 8, 1992.

IPCC (2000) Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories, Intergovernmental Panel on Climate Change, National Greenhouse Gas Inventories Programme.

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Ko, M.K.W., N.D. Sze, W.-C. Wang, G. Shia, A. Goldman, F.J. Murcray, D.G. Murcray, and C.P. Rinsland (1993) "Atmospheric Sulfur Hexafluoride: Sources, Sinks, and Greenhouse Warming." Journal of Geophysical Research, 98, 10499-10507.

MacNeal, J., T. Rack, and R. Corns (1990) "Process for Degassing Aluminum Melts with Sulfur Hexafluoride." U.S. Patent 4,959,101. Issued September 25, 1990.

Maiss, M. and C.A.M. Brenninkmeijer (1998) "Atmospheric SF₆: Trends, Sources and Prospects," *Environmental Science and Technology*, v. 32, n. 20, pp. 3077-3086.

Ten Eyck, N. and M. Lukens (1996) "Process for Treating Molten Aluminum with Chlorine Gas and Sulfur Hexafluoride to Remove Impurities." U.S. Patent 5,536,296. Issued July, 16, 1996.

USGS (2000) Minerals Yearbook: Aluminum Annual Report 1999. U.S. Geological Survey, Reston, VA.

USGS (1998) Minerals Yearbook: Aluminum Annual Report 1997. U.S. Geological Survey, Reston, VA.

USGS (1995) *Mineral Industry Surveys: Aluminum Annual Review 1994*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC. May.

Victor, D.G. and G.J. MacDonald (1998) "A Model for Estimating Future Emissions of Sulfur Hexafluoride and Perfluorcarbons." Interim Report for the International Institute for Applied Systems Analysis (IIASA), July, 1998. Downloaded from the IIASA website (http://www.iiasa.ac.at/), May 23, 2000.

Zurecki, Z. (1996) "Effect of Atmosphere Composition on Homogenizing Al-Mg and Al-Li Alloys." Gas Interactions in Nonferrous Metals Processing - Proceedings of the 1996 125th The Minerals, Metals & Materials Society (TMS) Annual Meeting (Anaheim, CA, USA), pp. 77-93.

HCFC-22 Production

Rand, S., Branscome, M., and Ottinger, D. (1999) "Opportunities for the Reduction of HFC-23 Emissions from the Production of HCFC-22." In: *Proceedings from the Joint IPCC/TEAP Expert Meeting On Options for the Limitation of Emissions of HFCs and PFCs*. Petten, the Netherlands, 26-28 May 1999.

Semiconductor Manufacture

Semiconductor Equipment and Materials International (1999) International Fabs on Disk, July 1999.

Semiconductor Industry Association (1997) *The National Technology Roadmap for Semiconductors 1997 Edition*, 1997.

VLSI Research Inc. (1998) "Worldwide Silicon Demand by Wafer Size, Linewidth and Device Type, 1992-2003," Presentation 2.1.2-1, 2.1.2-2, and 2.1.2-3, June 1998.

Electrical Transmission and Distribution

Ko, M., N. D. Sze, W. C. Wang, G. Shia, A. Goldman, F. J. Murcray, D. G. Murcray, and C. P. Rinsland (1993) "Atmospheric Sulfur Hexafluoride: Sources, Sinks and Greenhouse Warming," *J. Geophysical Research*, 98, 10499-10507.

Science & Policy Services, Inc. (1997) "Sales of Sulfur Hexafluoride (SF₆) by End-Use Applications," March 1997.

Magnesium Production and Processing

Gjestland, H. and D. Magers (1996) "Practical Usage of Sulphur [Sulfur] Hexafluoride for Melt Protection in the Magnesium Die Casting Industry," #13, 1996 *Annual Conference Proceedings*, Ube City, Japan, International Magnesium Association.

IPCC (2000) Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories, Intergovernmental Panel on Climate Change, National Greenhouse Gas Inventories Programme.

NIAR (1993) SF_6 as a Greenhouse Gas: An Assessment of Norwegian and Global Sources and Global Warming Potential, Norwegian Institute for Air Research, December.

Industrial Sources of Criteria Pollutants

EPA (2000) National Air Pollutant Emissions Trends Report, 1900-1999, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.

EPA (1997) Compilation of Air Pollutant Emission Factors, AP-42, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, October.

Solvent Use

EPA (2000) *National Air Pollutant Emissions Trends Report, 1900-1999*, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.

EPA (1997) Compilation of Air Pollutant Emission Factors, AP-42, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, October.

Agriculture

Enteric Fermentation

Becket, J.L. and J.W. Oltjen (1993) Estimation of the water requirement for beef production in the United States. *Journal of Animal Science*. 71:818-826.

Crutzen, P.J., I. Aselmann, and W. Seiler (1986). "Methane Production by Domestic Animals, Wild Ruminants, Other Herbivores, Fauna, and Humans." *Tellus* 38B:271-284.

Donovan, K. (1999) Personal Communication, University of California, Davis.

Donovan, K. and L. Baldwin (1999). Results of the AAMOLLY model runs for the Enteric Fermentation Model. University of California, Davis.

EPA (2000) Draft Enteric Fermentation Model Documentation. U.S. Environmental Protection Agency, Office of Air and Radiation, Washington, DC. June 13, 2000.

EPA (1993). Anthropogenic Methane Emissions in the United States: Estimates for 1990, Report to Congress. Office of Air and Radiation, U.S. Environmental Protection Agency, Washington, DC.

FAO (2000). FAOSTAT Statistical Database. Food and Agriculture Organization of the United Nations. http://apps.fao.org.

Feedstuffs (1998). "Nutrient requirements for pregnant replacement heifers." Feedstuffs, Reference Issue, p. 50.

IPCC (2000). Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories. Chapter 4. IPCC National Greenhouse Gas Inventories Programme Technical Support Unit, Kanagawa, Japan. Data also available at http://www.ipcc-nggip.iges.or.jp/gp/report.htm.

IPCC/UNEP/OECD/IEA (1997). Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Cooperation and Development, International Energy Agency.

Johnson, D. (1999). Personal Communication, Colorado State University, Fort Collins, 1999.

NRC (1999). 1996 *Beef* NRC, Appendix Table 22, p227. National Research Council.

USDA (2000a). *Cattle*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 1, 2000. Data also available from http://www.usda.gov/nass/pubs/reportname.htm#cattle.

USDA (2000b). *Hogs and Pigs*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. March 24, 1999. Data also available from http://jan.mannlib.cornell.edu/reports/nassr/livestock/php-bb/>.

USDA (2000c). *Livestock Slaughter*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 21. Data also available from http://www.usda.gov/nass/pubs/ reportname.htm#livestockslaughter>.

USDA (2000d). *Milk Production*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 18, 2000. Data also available from http://www.nass.usda.gov:81/ipedb/>.

USDA (2000e). *Sheep and Goats*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 28. Data also available from http://usda.mannlib.cornell.edu/reports/ nassr/livestock/pgg-bb/>.

USDA (1999a). *Cattle*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 1, 2000. Data also available from http://www.usda.gov/nass/pubs/reportname.htm#cattle.

USDA (1999b). *Cattle on Feed*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January. Data also available from http://www.nass.usda.gov:81/ipedb/.

USDA (1999c). *Cattle, Final Estimates 1994-1998*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington DC. 1999. Data also available from http://usda.mannlib.cornell.edu/reports/general/sb/>.

USDA (1999d). *Hogs and Pigs*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. March 26, 1999. Data also available from http://jan.mannlib.cornell.edu/reports/nassr/livestock/php-bb/>.

USDA (1999e). *Hogs and Pigs, Final Estimates 1993-97*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. Data also available from http://jan.mannlib.cornell.edu/reports/nassr/livestock/php-bb/.

USDA (1999f). *Livestock Slaughter*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 22. Data also available from http://www.usda.gov/nass/pubs/ reportname.htm#livestock-slaughter>.

USDA (1999g). *Milk Cows and Milk Production – Final Estimates 1993-1997*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 1999. Data also available from http://www.nass.usda.gov:81/ipedb/.

USDA (1999h). *Sheep and Goats, Final Estimates 1994-98*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC, 1999. Data also available from http://usda.mannlib.cornell.edu/reports/general/sb/>.

USDA (1998a). *Cattle on Feed*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January. Data also available from http://www.nass.usda.gov:81/ipedb/>.

USDA (1998b, 1998c). *Hogs and Pigs*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. September 25, December 29. Data also available from http://jan.mannlib.cornell.edu/reports/nassr/livestock/php-bb/.

USDA:APHIS:VS (1998) *Beef '97*, National Animal Health Monitoring System, Fort Collins, CO. 1998. Data also available from http://www.aphis.usda.gov/vs/ceah/cahm.

USDA (1997). *Cattle on Fee*d, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January. Data also available from http://www.nass.usda.gov:81/ipedb/.

USDA (1996a). *Beef Cow/Calf Health and Productivity Audit* (CHAPA): Forage Analyses from Cow/Calf Herds in 18 States, National Animal Health Monitoring System, Washington DC. March 1996. Data also available from http://www.aphis.usda.gov/vs/ceah/cahm.

USDA (1996b). *Cattle on Feed*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January. Data also available from http://www.nass.usda.gov:81/ipedb/.

USDA (1995a). *Cattle on Feed*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January. Data also available from http://www.nass.usda.gov:81/ipedb/.

USDA (1995b). *Cattle, Final Estimates 1989-93*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January. Data also available from http://usda.mannlib.cornell.edu/reports/general/sb/>.

USDA (1995c). *Cattle Highlights*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. February 3. Data also available from http://jan.mannlib.cornell.edu/reports/nassr/livestock/pct-bb/>.

USDA (1995d). *Dairy Outlook*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. February 27. zfata also available from http://usda.mannlib.cornell.edu/reports/nassr/dairy/pdp-bb/1995/>.

USDA (1994a). *Hogs and Pigs, Final Estimates 1988-92*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. December. zfata also available from http://jan.mannlib.cornell.edu/reports/nassr/livestock/php-bb/.

USDA (1994b). *Sheep and Goats, Final Estimates 1988-93*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 31. Data also available from http://usda.mannlib.cornell.edu/reports/general/sb/.

USDA:APHIS:VS (1994) *Beef Cow/Calf Health and Productivity Audit*. National Animal Health Monitoring System, Fort Collins, CO. Data also available from http://www.aphis.usda.gov/vs/ceah/cahm.

USDA:APHIS:VS (1993) *Beef Cow/Calf Health and Productivity Audit*. National Animal Health Monitoring System, Fort Collins, CO. August. Data also available from http://www.aphis.usda.gov/vs/ceah/cahm. Western Dairyman (1998). "How Big Should Heifers Be at Calving?" The Western Dairyman, Sept. 1998, p. 12.

Manure Management

Anderson, S. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Steve Anderson, Agricultural Statistician, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C. 31 May.

ASAE (1999) *ASAE Standards 1999*, 46th Edition, American Society of Agricultural Engineers, St. Joseph, MI.

Bryant, M.P., V.H. Varel, R.A. Frobish, and H.R. Isaacson (1976) In: H.G. Schlegel (ed.). *Seminar on Microbial Energy Conversion*. E. Goltz KG. Gottingen, Germany. 347 pp.

Deal, P. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Peter B. Deal, Rangeland Management Specialist, Florida Natural Resource Conservation Service, 21 June.

EPA (2000) *AgSTAR Digest*, U.S. Environmental Protection Agency, Office of Air and Radiation. Spring.

EPA (1993) Anthropogenic Methane Emissions in the United States: Estimates for 1990, Report to Congres, U.S. Environmental Protection Agency, Office of Air and Radiation. April.

EPA (1992) Global Methane Emissions from Livestock and Poultry Manure, U.S. Environmental Protection Agency, Office of Air and Radiation, February.

ERG (2000) Calculations: Percent Distribution of Manure for Waste Management Systems. August.

FAO (2000) Yearly US total horse population data from the Food and Agriculture Organization of the United Nations database, http://apps.fao.org, last updated April 5, 2000 (Accessed May 5, 2000).

Hashimoto, A.G. (1984) "Methane from Swine Manure: Effect of Temperature and Influent Substrate Composition on Kinetic Parameter (k)." *Agricultural Wastes*. 9:299-308.

Hashimoto, A.G., V.H. Varel, and Y.R. Chen (1981) "Ultimate Methane Yield from Beef Cattle Manure; Effect of Temperature, Ration Constituents, Antibiotics and Manure Age." *Agricultural Wastes*. 3:241-256.

Hill, D.T. (1984) "Methane Productivity of the Major Animal Types." *Transactions of the ASAE*. 27(2):530-540.

Hill, D.T. (1982) "Design of Digestion Systems for Maximum Methane Production." *Transactions of the ASAE*. 25(1):226-230.

IPCC (2000) Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories, Intergovernmental Panel on Climate Change, NGGIP. Chapter 4, Agriculture.

Johnson, D. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Dan Johnson, State Water Management Engineer, California Natural Resource Conservation Service, 23 June. Lange, J. (2000) Telephone conversation between Lee-Ann Tracy of ERG and John Lange, Agricultural Statistician, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. 8 May.

Martin, J. (2000) "A Comparison of the Performance of Three Swine Waste Stabilization Systems," paper submitted to Eastern Research Group, Inc. October, 2000.

Miller, P. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Paul Miller, Iowa Natural Resource Conservation Service, 12 June.

Milton, B. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Bob Milton, Chief of Livestock Branch, U.S. Department of Agriculture, National Agriculture Statistics Service, 1 May.

Morris, G.R. (1976) Anaerobic Fermentation of Animal Wastes: A Kinetic and Empirical Design Fermentation. M.S. Thesis. Cornell University.

NOAA (2000) National Oceanic and Atmospheric Administration (NOAA), National Climate Data Center (NCDC) Downloaded "9912.xls" on May 15, 2000 from ftp.ncdc.noaa.gov/pub/data/cirs/ (for all states except Alaska and Hawaii); downloaded "all-1994.tar", "all-1995.tar", "all-1996.tar", "all-1997.tar", "all-1998.tar", and "all-1999.tar" in April 2000 from ftp Alaska and Hawaii). Documentation for Dataset: "Time Bias Corrected Divisional Temperature-Precipitation-Drought Index"; TD-9640; March, 1994. http://www.ncdc.noaa.gov/onlineprod/drought/ftppage.html.

Poe, G., N. Bills, B. Bellows, P. Crosscombe, R. Koelsch, M. Kreher, and P. Wright (1999) Staff Paper *Documenting the Status of Dairy Manure Management in New York: Current Practices and Willingness to Participate in Voluntary Programs*, Department of Agricultural, Resource, and Managerial Economics, Cornell University, Ithaca, New York, September.

Safley, L.M., Jr. and P.W. Westerman (1998) "Anaerobic Lagoon Biogas Recovery Systems." *Biological Wastes*. 27:43-62.

Safley, L.M., Jr. and P.W. Westerman (1992) "Performance of a Low Temperature Lagoon Digester." *Biological Wastes*. 9060-8524/92/S05.00.

Safley, L.M., Jr. and P.W. Westerman (1990) "Psychrophilic Anaerobic Digestion of Animal Manure: Proposed Design Methodology." *Biological Wastes*. 34:133-148.

Safley, L.M., Jr. (2000) Telephone conversation between Deb Bartram of ERG and L.M. Safley, President, Agri-Waste Technology, June and October.

Stettler, D. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Don Stettler, Environmental Engineer, National Climate Center, Oregon Natural Resource Conservation Service, 27 June. Summers, R. and S. Bousfield (1980) "A Detailed Study of Piggery-waste Anaerobic Digestion." Agricultural Wastes. 2:61-78.

Sweeten, J. (2000) Telephone conversation between Indra Mitra of ERG and John Sweeten, Texas A&M University, June 2000.

UEP (1999) Voluntary Survey Results – Estimated Percentage Participation/Activity, Caged Layer Environmental Management Practices, Industry data submissions for EPA profile development, United Egg Producers and National Chicken Council. Received from John Thorne, Capitolink. June 2000.

USDA (2000a) *Cattle*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 28. (Data also available from http://www.nass.usda.gov:81/ipedb/).

USDA (2000b) *Cattle on Feed Cattle*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. April 14. (Data also available from http://www.nass.usda.gov:81/ipedb/).

USDA (2000c) *Hogs and Pig*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. March 24. (Data also available from http://www.nass.usda.gov:81/ipedb/).

USDA (2000d) *Chicken and Eggs – 1999 Summary Cattle*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January.

USDA (2000e) *Poultry Production and Value – 1999 Summary*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. April.

USDA (2000f) *Sheep and Goats*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January. (Data also available from http://www.usda.gov/nass/pubs/reportname.htm).

USDA (2000g) *Chicken and Eggs – Final Estimates* 1988-1993, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. Downloaded from http://usda.mannlib.cornell.edu/data-sets/livestock/95908/sb908.txt. May 3.

USDA (2000h) Re-aggregated data from the National Animal Health Monitoring System's (NAHMS) Dairy '96 study provided by Stephen L. Ott of the U.S. Department of Agriculture, Animal and Plant Health Inspection Service. June 19.

USDA (2000i) Layers '99 – Part II: References of 1999 Table Egg Layer Management in the U.S., U.S. Department of Agriculture, Animal and Plant Health Inspection Service (APHIS), National Animal Health Monitoring System (NAHMS). January.

USDA (2000j) Published Estimates Database, U.S. Department of Agriculture, National Agricultural Statistics Service, Washington, DC. Downloaded from http://www.nass.usda.gov:81/ipedb/. September 26.

USDA (1999a) *Cattle* – Final Estimates 1994-98, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January. (Data also available from http://www.nass.usda.gov:81/ipedb/).

USDA (1999b) *Poultry Production and Value – Final Estimates 1994-97*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. March.

USDA (1999c) *Sheep and Goats – Final Estimates 1994-1998*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January.

USDA (1999d) http://www.nass.usda.gov/census/census97/volume1/us-51/us2_25.pdf, Table 25. Miscellaneous Livestock and Animal Specialties Inventory and Sales: 1997 and 1992, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. (Accessed May 2000).

USDA (1999e) 1992 and 1997 Census of Agriculture (CD-ROM), U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC.

USDA (1998a) *Hogs and Pigs – Final Estimates 1993-97*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. December. (Data also available from http://www.nass.usda.gov:81/ipedb/).

USDA (1998b) *Chicken and Eggs – Final Estimates 1994-97*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. December.

USDA (1998c) *Nutrients Available from Livestock Manure Relative to Crop Growth Requirements*, Resource Assessment and Strategic Planning Working Paper 98-1, U.S. Department of Agriculture, Natural Resources Conservation Service. February.

USDA (1998d) Re-aggregated data from the National Animal Health Monitoring System's (NAHMS) Swine '95 study aggregated by Eric Bush of the U.S. Department of Agriculture, Centers for Epidemiology and Animal Health.

USDA (1996a) Agricultural Waste Management Field Handbook, National Engineering Handbook (NEH), Part 651, U.S. Department of Agriculture, Natural Resources Conservation Service. July.

USDA (1996b) Swine '95: Grower/Finisher Part II: Reference of 1995 U.S. Grower/Finisher Health & Management Practices, U.S. Department of Agriculture, Animal Plant Health and Inspection Service, Washington, DC. June.

USDA (1995a) *Cattle – Final Estimates 1989-93*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January. (Data also available from http://www.nass.usda.gov:81/ipedb/).

USDA (1995b) *Poultry Production and Value – Final Estimates 1989-1993*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January.

USDA (1994a) *Hogs and Pigs – Final Estimates 1988-92*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. December. (Data also available from http://www.nass.usda.gov:81/ipedb/).

USDA (1994b) *Sheep and Goats Changes Final Estimates 1989-1993*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 31.

Wright, P. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Peter Wright, Cornell University, College of Agriculture and Life Sciences, 23 June.

Rice Cultivation

Beck, B. (1999) Telephone conversation between Catherine Leining of ICF Consulting and Bruce Beck, Agronomy Specialist, Missouri Cooperative Extension Service, 3 June.

Bollich, P. (2000) Telephone conversation between Payton Deeks of ICF Consulting and Pat Bollich, Professor with Louisiana State University Agriculture Center, 17 May.

Cicerone R.J., Delwiche, C.C., Tyler, S.C., and Zimmerman, P.R. (1992) "Methane Emissions from California Rice Paddies with Varied Treatments." *Global Biogeochemical Cycles* 6:233-248.

Guethle, D. (1999) Telephone conversation between Payton Deeks of ICF Consulting and David Guethle, Agronomy Specialist, Missouri Cooperative Extension Service, 6 August.

Holzapfel-Pschorn, A., Conrad, R., and Seiler, W. (1985) "Production, Oxidation, and Emissions of Methane in Rice Paddies." *FEMS Microbiology Ecology* 31:343-351.

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories. Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

IPCC/UNEP/OECD/IEA (1995) *IPCC Guidelines for National Greenhouse Gas Inventories*. Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Klosterboer, A. (2000) Telephone conversation between Payton Deeks of ICF Consulting and Arlen Klosterboer, Extension Agronomist, Texas A & M University, 18 May.

Klosterboer, A. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Arlen Klosterboer, Extension Agronomist, Texas A & M University, 10 June.

Klosterboer, A. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Arlen Klosterboer, Extension Agronomist, Texas A & M University, 12 August.

Klosterboer, A. (1997) Telephone conversation between Holly Simpkins of ICF Incorporated and Arlen Klosterboer, Texas A & M University. 1 December.

Lindau, C.W. and Bollich, P.K. (1993) "Methane Emissions from Louisiana First and Ratoon Crop Rice." *Soil Science* 156:42-48.

Lindau, C.W., Bollich, P.K., and DeLaune, R.D. (1995) "Effect of Rice Variety on Methane Emission from Louisiana Rice." *Agriculture, Ecosystems and Environment* 54:109-114.

Lindau, C.W., Bollich, P.K., DeLaune, R.D., Mosier, A.R., and Bronson, K.F. (1993) "Methane Mitigation in Flooded Louisiana Rice Fields." *Biology and Fertility of Soils* 15:174-178.

Lindau, C.W., Bollich, P.K., DeLaune, R.D., Patrick, W.H. Jr., and Law, V.J. (1991) "Effect of Urea Fertilizer and Environmental Factors on CH₄ Emissions from a Louisiana, USA Rice Field." *Plant Soil* 136:195-203.

Lindau, C.W., Wickersham, P., DeLaune, R.D., Collins, J.W., Bollich, P.K., Scott, L.M., and Lambremont, E.N. (1998) "Methane and Nitrous Oxide Evolution and ¹⁵N and ²²⁶RA Uptake as Affected by Application of Gypsum and Phosphogypsum to Louisiana Rice." *Agriculture, Ecosystems and Environment* 68:165-173.

Linscombe, S. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Steve Linscombe, Research Agronomist, Rice Research Station in Crowley, LA, 3 June.

Linscombe, S. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Steve Linscombe, Research Agronomist, Rice Research Station in Crowley, LA, 9 August.

Mayhew, W. (1997) Telephone conversation between Holly Simpkins of ICF Incorporated and Walter Mayhew, University of Arkansas, Little Rock, 24 November.

Saichuk, J. (1997) Telephone conversation between Holly Simpkins of ICF Incorporated and John Saichuk, Louisiana State University, 24 November.

Sass, R.L., Fisher, F.M., Harcombe, P.A., and Turner, F.T. (1991a) "Mitigation of Methane Emissions from Rice Fields: Possible Adverse Effects of Incorporated Rice Straw." *Global Biogeochemical Cycles* 5:275-287.

Sass, R.L., Fisher, F.M., Turner, F.T., and Jund, M.F. (1991b) "Methane Emissions from Rice Fields as Influenced by Solar Radiation, Temperature, and Straw Incorporation." *Global Biogeochemical Cycles* 5:335-350.

Sass, R.L., Fisher, F.M., Harcombe, P.A., and Turner, F.T. (1990) "Methane Production and Emissions in a Texas Rice Field." *Global Biogeochemical Cycles* 4:47-68.

Sass, R.L., Fisher, F.M., and Wang, Y.B. (1992) "Methane Emission from Rice Fields: The Effect of Floodwater Management." *Global Biogeochemical Cycles* 6:249-262.

Scardaci, S. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Steven Scardaci, Farm Advisor, University of California Cooperative Extension, 3 June.

Scardaci, S. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Steven Scardaci, Farm Advisor, University of California Cooperative Extension, 10 August.

Schueneman, T. (2000) Telephone conversation between Payton Deeks of ICF Consulting and Tom Schueneman, Palm Beach County Agricultural Extension Agent, Florida, 16 May.

Schueneman, T. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Tom Schueneman, Palm Beach County Agricultural Extension Agent, Florida, 7 June.

Schueneman, T. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Tom Schueneman, Palm Beach County Agricultural Extension Agent, Florida, 10 August.

Schueneman, T. (1999c) Telephone conversation between John Venezia of ICF Consulting and Tom Schueneman, Palm Beach County Agricultural Extension Agent, Florida, 27 August.

Schueneman, T. (1997) Telephone conversation between Barbara Braatz of ICF Incorporated and Tom Schueneman, County Extension Agent, Florida. 7 November.

Slaton, N. (2000) Telephone conversation between Payton Deeks of ICF Consulting and Nathan Slaton, Extension Agronomist - Rice, University of Arkansas Division of Agriculture Cooperative Extension Service, 20 May.

Slaton, N. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Nathan Slaton, Extension Agronomist - Rice, University of Arkansas Division of Agriculture Cooperative Extension Service, 3 June.

Slaton, N. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Nathan Slaton, Extension Agronomist - Rice, University of Arkansas Division of Agriculture Cooperative Extension Service, 6 August.

Stevens, G. (1997) Telephone conversation between Holly Simpkins of ICF Incorporated and Gene Stevens, Extension Specialist, Missouri Commercial Agriculture Program, Delta Research Center, 17 December.

Street, J. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Joe Street, Mississippi State University, Delta Research Center, 8 June.

Street, J. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Joe Street, Mississippi State University, Delta Research Center, 6 August.

Street, J. (1997) Telephone conversation between Holly Simpkins of ICF Incorporated and Dr. Joe Street, Mississippi State University, Delta Research and Extension Center and Delta Branch Station, 1 December.

USDA (2000) U.S. Department of Agriculture's National Agriculture Statistics Data—Historical Data. (Available at < http://www.nass.usda.gov:81/ipedb/>U.S. and State Data > grains > then choose rice, harvested, years 1990-1999. Accessed 3 August 2000.

Agricultural Soil Management

AAPFCO (1999) *Commercial Fertilizers 1999*. Association of American Plant Food Control Officials, University of Kentucky, Lexington, KY.

AAPFCO (1998) *Commercial Fertilizers 1998*. Association of American Plant Food Control Officials, University of Kentucky, Lexington, KY.

AAPFCO (1997) *Commercial Fertilizers 1997*. Association of American Plant Food Control Officials, University of Kentucky, Lexington, KY.

AAPFCO (1996) *Commercial Fertilizers 1996*. Association of American Plant Food Control Officials, University of Kentucky, Lexington, KY.

AAPFCO (1995) *Commercial Fertilizers 1995*. Association of American Plant Food Control Officials, University of Kentucky, Lexington, KY.

ASAE (1999) *ASAE Standards 1999*. 46th Edition, American Society of Agricultural Engineers, St. Joseph, MI.

Anderson, S. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Steve Anderson, Agricultural Statistician, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. 31 May.

Barnard, G.W. and L.A. Kristoferson (1985) *Agricultural Residues as Fuel in the Third World*. Technical Report No. 5. Earthscan, London, UK.

Bastian, R. (1999) Telephone conversation between Marco Alcaraz of ICF Consulting and Robert Bastian, Office of Water, U.S. Environmental Protection Agency, Washington, DC, August.

Beuselinck, P.R. and Grant, W.F. (1995) "Birdsfoot Trefoil." In: *Forages, Volume I: An Introduction to Grassland Agriculture*, Barnes, R.F., Miller, D.A., and Nelson, C.J. (eds.), pp. 237-248, Iowa State University Press, Ames, Iowa.

Carpenter, G.H. (1992) "Current Litter Practices and Future Needs." In: 1992 National Poultry Waste Management Symposium Proceedings, Blake, J.P., Donald, J.O., and Patterson, P.H., (eds.), pp. 268-273, Auburn University Printing Service, Auburn, AL.

Cropper, J. (2000) Telephone Conversation between Payton Deeks of ICF Consulting and Jim Cropper, Natural Resource Conservation Service, Pennsylvania, 24 May, 6 June and 13 June.

Deal, P. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Peter B. Deal, Rangeland Management Specialist, Florida Natural Resource Conservation Service, 21 June.

EPA (1993) Federal Register. Part II. Standards for the Use and Disposal of Sewage Sludge; Final Rules. U.S. Environmental Protection Agency, 40 CFR Parts 257, 403 and 503.

Evers, G.W. (2000) Telephone and Email Conversation between Barbara Braatz of ICF Consulting and Gerald W. Evers, Texas Agricultural Experiment Center, Texas A&M University, 7 July and 10 July.

FAO (2000) Yearly US total horse population data from the Food and Agriculture Organization of the United Nations database, http://apps.fao.org, last updated April 5, 2000 (Accessed May 5, 2000).

Gerrish, J. (2000) Telephone Conversation between Barbara Braatz of ICF Consulting and Dr. Jim Gerrish, Forage Systems Research Center, University of Missouri, 7 July.

Hoveland, C.S. (2000) Telephone Conversation between Barbara Braatz of ICF Consulting and Carl S. Hoveland, Department of Agronomy, University of Georgia, 7 July.

Hoveland, C.S. and Evers, G.W. (1995) "Arrowleaf, Crimson, and Other Annual Clovers." In: Forages, Volume I: *An Introduction to Grassland Agriculture*, Barnes, R.F., Miller, D.A., and Nelson, C.J. (eds.), pp. 249-260, Iowa State University Press, Ames, Iowa.

IPCC (2000) Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories. IPCC National Greenhouse Gas Inventories Programme Technical Support Unit, Kanagawa, Japan. Available at http://www.ipcc-nggip.iges.or.jp/gp/report.htm.

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Johnson, D. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Dan Johnson, State Water Management Engineer, California Natural Resource Conservation Service, 23 June.

Karkosh, R. (2000) Telephone conversation between Barbara Braatz of ICF Consulting and Roy Karkosh, Crops Branch, National Agricultural Statistics Service, U.S. Department of Agriculture, 17 July.

Ketzis, J. (1999) Telephone and Email conversations between Marco Alcaraz of ICF Consulting and Jen Ketzis regarding the Animal Science Department Computer Model, Cornell University, June/July.

Lange, J. (2000) Telephone conversation between Lee-Ann Tracy of ERG and John Lange, Agricultural Statistician, U. S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC, 8 May.

Miller, P. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Paul Miller, Iowa Natural Resource Conservation Service, 12 June.

Milton, B. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Bob Milton, Chief of Livestock Branch, U.S. Department of Agriculture, National Agriculture Statistics Service, 1 May.

National Research Council. (1996) *Use of Reclaimed Water and Sludge in Food Crop Production*. Committee on the Use of treated Municipal Wastewater Effluents and Sludge in the Production of Crops for Human Consumption, Water Science and Technology Board, Commission on Geosciences, Environment and Resources. National Academy Press, Washington, DC.

Nevison, C. (2000) "Review of the IPCC methodology for estimating nitrous oxide emissions associated with agricultural leaching and runoff." *Chemosphere-Global Change Science* 2:493-500.

Paustian, K. (1999) E-mail from Keith Paustian of the Natural Resources Ecology Laboratory to Wiley Barbour of the U.S. Environmental Protection Agency containing statistics on U.S. histosol areas cultivated in 1982 and 1992, which were extracted by Marlen Eve from the 1992 *National Resources Inventory*, September 9.

Pederson, G.A. (2000) Telephone conversation between Barbara Braatz of ICF Consulting and Dr. Gary A. Pederson, Department of Agronomy, Mississippi State University, 24 July and 25 July.

Pederson, G.A. (1995) "White Clover and Other Perennial Clovers." In: *Forages, Volume I: An Introduction to Grassland Agriculture*, Barnes, R.F., Miller, D.A., and Nelson, C.J. (eds.), pp. 227-236, Iowa State University Press, Ames, Iowa.

Poe, G., Bills, N., Bellows, B., Crosscombe, P., Koelsch, R., Kreher, M., and Wright, P. (1999) *Documenting the Status of Dairy Manure Management in New York: Current Practices and Willingness to Participate in Voluntary Programs.* Staff Paper, Dept. of Agricultural, Resource, and Managerial Economics, Cornell University, Ithaca, New York, September.

Safley, L.M. (2000) Telephone conversation between Deb Bartram of ERG and L.M. Safley, President, Agri-Waste Technology, June.

Safley, L.M., Casada, M.E., Woodbury, J.W., Roos, J.F. (1992) *Global Methane Emissions from Livestock and Poultry Manure*. EPA/400/1-91/048, Office of Air and Radiation, U.S. Environmental Protection Agency. February.

Sperow, M. (2000) Telephone conversation between Mark Sperow of the Natural Resources Ecology Laboratory and Barbara Braatz of ICF Consulting in which Sperow provided 1997 U.S. histosol area cultivated, which was extracted from the 1997 *National Resources Inventory*, August 11.

Stettler, D. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Don Stettler, Environmental Engineer, National Climate Center, Oregon Natural Resource Conservation Service, 27 June.

Strehler, A. and Stützle, W. (1987) "Biomass Residues". In: *Biomass*, Hall, D.O. and Overend, R.P. (eds.), pp. 75-102, John Wiley and Sons, Ltd. Chichester, UK.

Sweeten, J. (2000) Telephone conversation between Indra Mitra of ERG and John Sweeten, Texas A&M University, June.

Taylor, N.L. and Smith, R.R. (1995) "Red Clover." In: Forages, Volume I: An Introduction to Grassland Agriculture, Barnes, R.F., Miller, D.A., and Nelson, C.J. (eds.), pp. 217-226, Iowa State University Press, Ames, Iowa.

TVA (1994) Commercial Fertilizers 1994. Tennessee Valley Authority, Muscle Shoals, AL.

TVA (1993) Commercial Fertilizers 1993. Tennessee Valley Authority, Muscle Shoals, AL.

TVA (1992) Commercial Fertilizers 1992. Tennessee Valley Authority, Muscle Shoals, AL.

TVA (1991) Commercial Fertilizers 1991. Tennessee Valley Authority, Muscle Shoals, AL.

Terry, D. (1997) Telephone communication between Beverly Grossman of ICF Consulting and David Terry, American Association of Plant Food Control Officials, University of Kentucky, Lexington, KY. June.

Turn, S.Q., Jenkins, B.M., Chow, J.C., Pritchett, L.C., Campbell, D., Cahill, T., and Whalen, S.A. (1997) "Elemental characterization of particulate matter emitted from biomass burning: Wind tunnel derived source profiles for herbaceous and wood fuels." *Journal of Geophysical Research* 102 (D3): 3683-3699.

USDA (2000a) *Cattle on Feed Cattle*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. 14 April (data also available from http://www.nass.usda.gov:81/ipedb/).

USDA (2000b) *Cattle*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. 28 January (data also available from http://www.nass.usda.gov:81/ipedb/).

USDA (2000c) *Chicken and Eggs – 1999 Summary Cattle*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January.

USDA (2000d) *Chicken and Eggs – Final Estimates 1988-1993*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. 3 May.

USDA (2000e) *Hogs and Pigs*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. 24 March (data also available from http://www.nass.usda.gov:81/ipedb/).

USDA (2000f) *Poultry Production and Value – 1999 Sum-mary*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. April.

USDA (2000g) *Sheep and Goats*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January.

USDA (2000h) *1997 National Resources Inventory*. U.S. Department of Agriculture, Natural Resources Conservation Service, Washington, DC.

USDA (2000i) *Crop Production 1999 Summary*. National Agricultural Statistics Service, Agricultural Statistics Board, U.S. Department of Agriculture, Washington, DC.

USDA (1999a) *Cattle – Final Estimates 1994-98*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January (data also available from http://www.nass.usda.gov:81/ipedb/).

USDA (1999b) *Poultry Production and Value – Final Estimates 1994-97*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. March.

USDA (1999c) *Sheep and Goats – Final Estimates 1994-1998*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January.

USDA (1999d) http://www.nass.usda.gov/census/census97/volume1/us-51/us2_25.pdf, Table 25. Miscellaneous Livestock and Animal Specialties Inventory and Sales: 1997 and 1992, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. (Accessed May 2000).

USDA (1999e) 1992 and 1997 Census of Agriculture (CD-ROM), U.S. Department of Agriculture, National Agriculture Statistics Service.

USDA (1999f) *Crop Production 1998 Summary*. National Agricultural Statistics Service, Agricultural Statistics Board, U.S. Department of Agriculture, Washington, DC.

USDA (1998a) *Chicken and Eggs – Final Estimates 1994-97*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. December.

USDA (1998b) *Crop Production 1997 Summary*. National Agricultural Statistics Service, Agricultural Statistics Board, U.S. Department of Agriculture, Washington, DC.

USDA (1998c) *Hogs and Pigs – Final Estimates 1993-97*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. December (data also available from http://www.nass.usda.gov:81/ipedb/).

USDA (1998d) *Nutrients Available from Livestock Manure Relative to Crop Growth Requirements*, Resource Assessment and Strategic Planning Working Paper 98-1, U.S. Department of Agriculture, Natural Resources Conservation Service. February.

USDA (1997) *Crop Production Summary Data*. 1992-1996, U.S. Department of Agriculture, Available at http://www.usda.gov/nass/pubs/histdata.htm>.

USDA (1996) Agricultural Waste Management Field Handbook, National Engineering Handbook (NEH), Part 651, U.S. Department of Agriculture, Natural Resources Conservation Service. July.

USDA (1995a) *Cattle – Final Estimates 1989-93*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January (data also available from http://www.nass.usda.gov:81/ipedb/).

USDA (1995b) *Poultry Production and Value – Final Estimates 1989-1993*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC.

USDA (1994a) *Field Crops: Final Estimates, 1987-1992:* Statistical Bulletin Number 896. U.S. Department of Agriculture, National Agricultural Statistics Services, GPO, Washington, DC.

USDA (1994b) *Hogs and Pigs – Final Estimates 1988-92*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. December (data also available from http://www.nass.usda.gov:81/ipedb/).

USDA (1994c) *Sheep and Goats – Final Estimates 1989-1993*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January.

USDA (1994d) *1992 National Resources Inventory*. U.S. Department of Agriculture, Natural Resources Conservation Service, Washington, DC.

Wright, P. (2000) Telephone conversation between Lee-Ann Tracy of ERG and Peter Wright, Cornell University, College of Agriculture and Life Sciences, 23 June.

Agricultural Residue Burning

Barnard, G., and Kristoferson, L. (1985) *Agricultural Residues as Fuel in the Third World*. Earthscan Energy Information Programme and the Beijer Institute of the Royal Swedish Academy of Sciences. London, England.

Bollich, P. (2000) Telephone conversation between Payton Deeks of ICF Consulting and Pat Bollich, Professor with Louisiana State University Agriculture Center, 17 May.

California Air Resources Board (1999) *Progress Report* on the Phase Down of Rice Straw Burning in the Sacramento Valley Air Basin, Proposed 1999 Report to the Legislature, December.

Cibrowski, P. (1996) Telephone conversation between Heike Mainhardt of ICF Incorporated and Peter Cibrowski, Minnesota Pollution Control Agency, 29 July.

EPA (1994) International Anthropogenic Methane Emissions: Estimates for 1990, Report to Congress. EPA 230-R-93-010. Office of Policy Planning and Evaluation, U.S. Environmental Protection Agency. Washington, DC.

EPA (1992) Prescribed Burning Background Document and Technical Information Document for Prescribed Burning Best Available Control Measures. EPA-450/2-92-003. Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency. Research Triangle Park, NC.

Fife, L. (1999) Telephone conversation between Catherine Leining of ICF Consulting and Les Fife, President and General Manager, Fife Environmental, 9 June.

Guethle, D. (1999) Telephone conversation between Payton Deeks of ICF Consulting and David Guethle, Agronomy Specialist, Missouri Cooperative Extension Service, 6 August.

Guethle, D. (2000) Telephone conversation between Payton Deeks of ICF Consulting and David Guethle, Agronomy Specialist, Missouri Cooperative Extension Service, 17 May.

ILENR (1993) *Illinois Inventory of Greenhouse Gas Emissions and Sinks: 1990*. Office of Research and Planning, Illinois Department of Energy and Natural Resources. Springfield, IL.

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Jenkins, B.M., Turn, S.Q., and Williams, R.B. (1992) Atmospheric emissions from agricultural burning in California: determination of burn fractions, distribution factors, and crop specific contributions. *Agriculture, Ecosystems and Environment* 38:313-330.

Ketzis, J. (1999) Telephone conversation between Marco Alcaraz of ICF Consulting and Jen Ketzis of Cornell University, June/July.

Klosterboer, A. (2000) Telephone conversation between Payton Deeks of ICF Consulting and Arlen Klosterboer, Extension Agronomist, Texas A & M University, 18 May.

Klosterboer, A. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Arlen Klosterboer, Extension Agronomist, Texas A & M University, 10 June.

Klosterboer, A. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Arlen Klosterboer, Extension Agronomist, Texas A & M University, 12 August.

Linscombe, S. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Steve Linscombe, Research Agronomist, Rice Research Station in Crowley, LA, 3 June.

Linscombe, S. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Steve Linscombe, Research Agronomist, Rice Research Station in Crowley, LA, 9 August.

Najita, T. (2000) Telephone conversation between Payton Deeks of ICF Consulting and Theresa Najita, Air Pollution Specialist, California Air Resouces Board, 17 August.

Noller, J. (1996) Telephone conversation between Heike Mainhardt of ICF Incorporated and John Noller, Missouri Department of Natural Resources, 30 July.

Oregon Department of Energy (1995) Report on Reducing Oregon's Greenhouse Gas Emissions: Appendix D Inventory and Technical Discussion. Oregon Department of Energy. Salem, OR.

Schueneman, T. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Tom Schueneman, Palm Beach County Agricultural Extension Agent, Florida, 7 June.

Schueneman, T. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Tom Schueneman, Palm Beach County Agricultural Extension Agent, Florida, 10 August.

Slaton, N. (2000) Telephone conversation between Payton Deeks of ICF Consulting and Nathan Slaton, Extension Agronomist - Rice, University of Arkansas Division of Agriculture Cooperative Extension Service, 20 May.

Slaton, N. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Dr. Nathan Slaton, Extension Agronomist - Rice, University of Arkansas Division of Agriculture Cooperative Extension Service, 3 June.

Slaton, N. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Dr. Nathan Slaton, Extension Agronomist - Rice, University of Arkansas Division of Agriculture Cooperative Extension Service, 6 August.

Street, J. (2000) Telephone conversation between Payton Deeks of ICF Consulting and Joe Street, Mississippi State University, Delta Research Center, 17 May.

Street, J. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Joe Street, Mississippi State University, Delta Research Center, 8 June.

Street, J. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Joe Street, Mississippi State University, Delta Research Center, 6 August.

Strehler, A. and Stützle, W. (1987) "Biomass Residues." In: Hall, D.O. and Overend, R.P. (eds.) *Biomass*. John Wiley and Sons, Ltd. Chichester, UK.

Turn, S.Q., Jenkins, B.M., Chow, J.C., Pritchett, L.C., Campbell, D., Cahill, T., and Whalen, S.A. (1997) "Elemental characterization of particulate matter emitted from biomass burning: Wind tunnel derived source profiles for herbaceous and wood fuels." *Journal of Geophysical Research* 102(D3):3683-3699.

University of California (1977) *Emission Factors From Burning of Agricultural Waste Collected in California*. University of California, Davis.

USDA (2000) *Crop Production 1999 Summary*. National Agricultural Statistics Service, Agricultural Statistics Board, U.S. Department of Agriculture, Washington, DC. Available online at http://usda.mannlib.cornell.edu/, then browse under Field Crops, choose Crop Production, Annual Summary, then 2000.

USDA (1998) Field Crops, Final Estimates 1992-1997. National Agricultural Statistics Service, Agricultural Statistics Board, U.S. Department of Agriculture, Washington, DC. Available online at http://usda.mannlib.cornell.edu/, then browse under Field Crops, choose Field Crops, Final Estimates 1992-1997, then Field Crops.

USDA (1994) Field Crops, Final Estimates 1987-1992. National Agricultural Statistics Service, Agricultural Statistics Board, U.S. Department of Agriculture, Washington, DC. Available online at http://usda.mannlib.cornell.edu/, then browse under Field Crops, choose Field Crops, Final Estimates 1987-1992, then Field Crops.

Wisconsin Department of Natural Resources (1993) Wisconsin Greenhouse Gas Emissions: Estimates for 1990. Bureau of Air Management, Wisconsin Department of Natural Resources, Madison, WI.

Land-Use Change and Forestry

Adams, D.M., and Haynes, R.W. (1980) "The Timber Assessment Market Model: Structure, Projections, and Policy Simulations." *Forest Sci. Monogr.* 22, Society of American Foresters, Bethesda, MD, 64 pp.

Alig, R.J. (1985) "Econometric Analysis of Forest Acreage Trends in the Southeast." *Forest Science* 32:119-134.

Armentano, T.V. and Verhoeven, J.T.A. (1990) "Biogeochemical Cycles: Global." In: *Wetlands and Shallow Continental Water Bodies*. Patten, B.C., et al. (eds.) SPB Academic Publishing, The Hague, Netherlands, Volume I, pp. 281-311.

Barlaz, M.A. (1997) *Biodegradative Analysis of Municipal Solid Waste in Laboratory-Scale Landfills*, U.S. Environmental Protection Agency, Office of Research and Development, Research Triangle Park, NC. EPA 600/R-97-071.

Birdsey, R.A. (1996) "Carbon Storage for Major Forest Types and Regions in the Conterminous United States." In: Sampson, R.N. and Hair, D. (eds.), *Forests and Global Change*, Volume 2: Forest Management Opportunities for Mitigating Carbon Emissions, American Forests, Washington, DC, pp. 1-25 and Appendix 2.

Birdsey, R.A. and Heath, L.S. (1995) "Carbon Changes in U.S. Forests." In: *Productivity of America's Forests and Climate Change*. Gen. Tech. Rep. RM-271. Rocky Mountain Forest and Range Experiment Station, Forest Service, U.S. Department of Agriculture, Fort Collins, CO, pp. 56-70.

Birdsey, R.A., Plantinga, A.J. and Heath, L.S. (1993) "Past and Prospective Carbon Storage in U.S. Forests." *Forest Ecology and Management* 58: 33-40.

Brady, N.C. and Weil, R.R. (1999) *The Nature and Properties of Soils*. Prentice Hall, Upper Saddle River, New Jersey, 881 pp.

CTIC (1998) Crop Residue Management Executive Summary. Conservation Technology Information Center, West Lafayette, Indiana.

Daly, C., Neilson, R.P. and Phillips, D.L. (1994) "A Statistical-Topographic Model for Mapping Climatological Precipitation over Mountainous Terrain." *Journal of Applied Meteorology* 33:140-158.

EPA (1999) Characterization of Municipal Solid Waste in the US: 1998 Update. U.S. Environmental Protection Agency, Washington, DC.

EPA (1998) Greenhouse Gas Emissions from Management of Selected Materials in Municipal Solid Waste. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, DC. EPA530-R-98-013.

Eve, M.D., Follett, R., and Paustian, K. (2000a) Supplemental data to the *United States Submission on Land Use, Land-Use Change, and Forestry*, Provided in 6 December e-mail from M.D. Eve to B.V. Braatz at ICF Consulting.

Eve, M.D., Paustian, K., Follett, R., and Elliott, E.T. (2000b) "A National Inventory of Changes in Soil Carbon from National Resources Inventory Data." In: Lal, R., Kimble, J.M., Follett, R.F., and Stewart, B.A. (eds.) *Assessment Methods for Soil Carbon*. Lewis Publishers, Boca Raton, FL.

Follett, R.F., Kimble, J.M., and Lal, R. (2001) "The Potential of U.S. Grazing Lands to Sequester Soil Carbon." In: Follett, R.F., Kimble, J.M., and Lal, R. (eds.) *The Potential of U.S. Grazing Lands to Sequester Carbon and Mitigate the Greenhouse Effect*. Lewis Publishers, Boca Raton, FL, pp. 401-430.

Gebhart, D.L., Johnson, H.B., Mayeux, H.S., and Polley, H.W. (1994) "The CRP Increases Soil Organic Matter." *Journal of Soil and Water Conservation* 49:488-492.

Haynes, R.W. (technical coordinator) (2000) *RPA 2000 Timber Assessment Draft Review*. Pacific Northwest Research Station, Forest Service, U. S. Department of Agriculture, Portland, OR. Downloaded from http://www.fs.fed.us/pnw/sev/rpa/.

Heath, L. S. (1997a) "Assessing Carbon Sequestration on Public Timberland in the Coterminous United States." In: *Seventh Symposium on System Analysis in Forest Resources*, May 28-31, Bellaire, MI. Gen. Tech. Rep. NC-205. North Central Research Station, Forest Service, U.S. Department of Agriculture, St. Paul, MN, pp. 257-260.

Heath, L.S. (1997b) Memorandum from Linda S. Heath of the Pacific Northwest Research Station, Forest Service, U.S. Department of Agriculture, to Catherine Leining of ICF Inc. regarding carbon pool and carbon flux data in Heath et al. (1996). 16 December. Heath, L.S. and Smith, J.E. (2000a) "An Assessment of Uncertainty in Forest Carbon Budget Projections." *Environmental Science & Policy* 3:73-82.

Heath, L. S. and Smith, J.E. (2000b) "Soil Carbon Accounting and Assumptions for Forestry and Forest-related Land Use Change." In: *The Impact of Climate Change on America's Forests*. Joyce, L.A., and Birdsey, R.A. Gen. Tech. Rep. RMRS-59. Rocky Mountain Research Station, Forest Service, U.S. Department of Agriculture, Fort Collins, CO, pp. 89-101.

Heath, L.S., Birdsey, R.A., Row, C., and Plantinga, A.J. (1996) "Carbon Pools and Fluxes in U.S. Forest Products." In: Apps, M.J. and Price, D.T. (eds.) Forest Ecosystems, *Forest Management and the Global Carbon Cycle*. Springer-Verlag, Berlin, pp. 271-278.

Huggins, D.R., Allan, D.L., Gradner, J.C., Karlen, D.L., Bezdicek, D.F., Alms, M.J., Flock, M., Miller, B.S., and Staben, M.L. (1997) "Enhancing Carbon Sequestration in CRP-Managed Land." In: Lal, R., Kimble, J.M., Follett, R.F., and Stewart, B.A. (eds.) *Management of Carbon Sequestration in Soil*. CRC Press, Boca Raton, FL, pp. 323-350.

Ince, P. J. (1994) *Recycling and Long-Range Timber Outlook.* Gen. Tech. Rep. RM-242. Rocky Mountain Forest and Range Experiment Station, Forest Service, U.S. Department of Agriculture. Fort Collins, CO, 66 p.

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency. Paris, France.

Johnson, D.W. (1992) "Effects of Forest Management on Soil Carbon Storage." *Water, Air, and Soil Pollution* 64:83-120.

Mills, J.R., and Kincaid, J.C. (1992) *The Aggregate Timberland Assessment System-ATLAS: A Comprehensive Timber Projection Model*. Gen. Tech. Rep. PNW-281. Pacific Northwest Research Station, Forest Service, U.S. Department of Agriculture, Portland, OR, 160 pp.

Moore, B., Boone, R.D., Hobbie, J.E., Houghton, R.A., Melillo, J.M., Shaver, G.R., Vorosmarty, C.J., and Woodwell, G.M. (1981) "A Simple Model for Analysis of the Role of Terrestrial Ecosystems in the Global Carbon Cycle." In: Bolin, B. (ed.), *Modeling the Global Carbon Budget*. SCOPE 16. John Wiley and Sons, New York, NY.

Paustian, K., Elliott, E.T., Killian, K., Cipra, J., Bluhm, G., Smith, J.L. (2001) "Modeling and Regional Assessment of Soil Carbon: A Case Study of the Conservation Reserve Program." In: Lal, R. and McSweeney, K. (eds.) *Soil Management for Enhancing Carbon Sequestration*. SSSA Special Publication, Madison, WI (in press).

Plantinga, A.J., and Birdsey, R.A. (1993) "Carbon Fluxes Resulting from U.S. Private Timberland Management." *Climatic Change* 23:37-53.

Powell, D.S., Faulkner, J.L., Darr, D.R., Zhu, Z., and MacCleery, D.W. (1993) *Forest Resources of the United States, 1992*. Gen. Tech. Rep. RM-234. Rocky Mountain Forest and Range Experiment Station, Forest Service, U.S. Department of Agriculture, Fort Collins, CO, 132 pp.

Skog, K.E. and Nicholson, G.A. (1998) "Carbon Cycling Through Wood Products: The Role of Wood and Paper Products in Carbon Sequestration." *Forest Products Journal* 48:75-83.

Smith, J.E., and Heath, L.S. (2000) "Considerations for Interpreting Probabilistic Estimates of Uncertainty of Forest Carbon." In: *The Impact of Climate Change on America's Forests*. Gen. Tech. Rep. RMRS-59. Rocky Mountain Research Station, Forest Service, U.S. Department of Agriculture, Fort Collins, CO, pp. 102-111.

Smith, W.B. and Sheffield, R.M. (2000) 1997 RPA Assessment: *The United States Forest Resource Current Situation (Final Statistics)*. Forest Service, U.S. Department of Agriculture. July 2000 Review Draft. Downloaded from http://www.srsfia.usfs.msstate.edu/wo/review.htm.

Tepordei, V. V. (2000) "Crushed Stone," In: *Minerals Yearbook 1998*. U.S. Department of the Interior/U.S. Geological Survey, Washington, DC. (Available at http://minerals.usgs.gov/minerals/pubs/commodity/stone_crushed/630498.pdf) Accessed August 2000.

Tepordei, V. V. (1999) "Crushed Stone," In: *Minerals Yearbook 1997*. U.S. Department of the Interior/U.S. Geological Survey, Washington, DC. (Available at http://minerals.usgs.gov/minerals/pubs/commodity/stone crushed/630497.pdf>) Accessed August 2000.

Tepordei, V. V. (1998) "Crushed Stone," In: *Minerals Yearbook 1996*. U.S. Department of the Interior/U.S. Geological Survey, Washington, DC. (Available at http://minerals.usgs.gov/minerals/pubs/commodity/stone crushed/630496.pdf>). Accessed August 2000.

Tepordei, V. V. (1997) "Crushed Stone," In: *Minerals Year-book 1995*. U.S. Department of the Interior/U.S. Geological Survey, Washington, DC. pp. 783-809.

Tepordei, V. V. (1996) "Crushed Stone," In: *Minerals Yearbook 1994*. U.S. Department of the Interior/Bureau of Mines, Washington, DC. (Available at http://minerals.usgs.gov/minerals/pubs/commodity/stone crushed/630494.pdf>). Accessed August 2000.

Tepordei, V. V. (1995) "Crushed Stone," In: *Minerals Yearbook 1993*. U.S. Department of the Interior/Bureau of Mines, Washington, DC, pp. 1107–1147.

Tepordei, V. V. (1994) "Crushed Stone," In: *Minerals Year-book 1992*. U.S. Department of the Interior/Bureau of Mines, Washington, DC, pp. 1279-1303.

Tepordei, V. V. (1993) "Crushed Stone," In: *Minerals Year-book 1991*. U.S. Department of the Interior/Bureau of Mines, Washington, DC, pp. 1469-1511.

USDA (2000a) *1997 National Resources Inventory*. U.S. Department of Agriculture, Natural Resources Conservation Service, Washington, DC.

USDA (2000b) *USDA Agricultural Baseline Projections* to 2009. Staff Report WAOB-2000-1. U.S. Department of Agriculture, Washington, DC.

USDA (1991) State Soil Geographic Data Base (STATSGO): Data users guide. U.S. Department of Agriculture, Soil Conservation Service, National Resource Conservation Service. Miscellaneous Publication Number 1492, U.S. Government Printing Office.

U.S. Department of State (2000) *United States Submission on Land Use, Land-Use Change, and Forestry*. U.S. submission to UN Framework Convention on Climate Change, 1 August 2000. Available at http://www.state.gov/www/global/global_issues/climate/climate-2000 submiss.html>.

USFS (1990) An Analysis of the Timber Situation in the United States: 1989 - 2040: A Technical Document Supporting the 1989 USDA Forest Service RPA Assessment. Gen. Tech. Rep. RM-199. Rocky Mountain Forest and Range Experiment Station, Forest Service, U.S. Department of Agriculture. Fort Collins, CO, 268 pp.

USGS (2000) Mineral Industry Surveys: Crushed Stone and Sand and Gravel in the First Quarter of 2000. U.S. Geological Survey, Reston, VA.

Vogt, K.A., Grier, C.C., and Vogt, D.J. (1986) "Production, Turnover, and Nutrient Dynamics of Above- and Belowground Detritus of World Forests." *Advances in Ecological Research* 15:303-377.

Waddell, K.L., Oswald, D.D. and Powell, D.S. (1989) Forest Statistics of the United States, 1987. Resource Bulletin PNW-RB-168. Pacific Northwest Research Station, Forest Service, U.S. Department of Agriculture, Portland, OR, 106 pp.

Waste

Landfills

40 CFR Part 60, Subparts Cc (1999) and WWW. < http://www.access.gpo.gov/cfr >.

Barlaz, M. A. (1997) *Biodegradative Analysis of Municipal Solid Waste in Laboratory-Scale Landfills*, U.S. Environmental Protection Agency, Office of Research and Development, Research Triangle Park, NC. EPA 600/R-97-071.

Bingemer, H. and J. Crutzen (1987) "The Production of Methane from Solid Wastes," *Journal of Geophysical Research*, 92:2181-2187.EPA (1998) *Greenhouse Gas Emissions from Management of Selected Materials in Municipal Solid Waste*. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, DC. EPA530-R-98-013.

BioCycle (2000) "BioCycle Nationwide Survey: The State of Garbage in America," N. Goldstein, *BioCycle*, April.

EPA (1999) Characterization of Municipal Solid Waste in the United States: 1998 Update, U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, DC. EPA530-R-99-021.

EPA (1998) Greenhouse Gas Emissions from Management of Selected Materials in Municipal Solid Waste. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, DC. EPA530-R-98-013.

EPA (1993) Anthropogenic Methane Emissions in the United States, Estimates for 1990: Report to Congress, U.S. Environmental Protection Agency, Office of Air and Radiation, Washington, DC. EPA/430-R-93-003, April.

EPA (1988) *National Survey of Solid Waste (Municipal) Landfill Facilities*, U.S. Environmental Protection Agency, Washington, DC. EPA/530-SW-88-011. September.

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Liptay, K., et al. (1998) "Use of Stable Isotopes to Determine Methane Oxidation in Landfill Cover Soils," *JGR Atmospheres*, 103D, 8243-8250pp.

Waste Combustion

APC (2000) as reported in "Facts & Figures for the Chemical Industry," *Chemical and Engineering News*, Vol. 78 (26), June 26, 2000. American Plastics Council. Arlington, VA. Available online at http://www.plasticsindustry.org/industry/stat3.htm.

BioCycle (2000) "12th Annual BioCycle Nationwide Survey: The State of Garbage in America, Part I" Nora Goldstein, *BioCycle*, April 2000. JG Press, Emmaus, PA.

De Soete, G. G. (1993) Nitrous Oxide from Combustion and Industry: Chemistry, Emissions and Control. In Van Amstel, A. R. (ed) Proc. of the International Workshop Methane and Nitrous Oxide: Methods in National Emission Inventories and Options for Control, Amersfoort (NL) 3-5 February.

DeZan, D. (2000) Personal communication between Diane DeZan of the Fiber Economics Bureau and Joe Casola of ICF Consulting, August 4, 2000.

Eldredge-Roebuck, B. (2000) Personal communication between Brandt Eldredge-Roebuck of the American Plastics Council and Joe Casola of ICF Consulting, July 11, 2000.

EPA (2000a) *Biennial Reporting System (BRS)*. U.S. Environmental Protection Agency, Envirofacts Warehouse. Washington, DC. Available online at http://www.epa.gov/enviro/html/brs/brs query.html>.

EPA (2000b) Characterization of Municipal Solid Waste in the United States: 1999 Update Fact Sheet. Report No. EPA530-F-00-024. U.S. Environmental Protection Agency, Office of Solid Waste, EPA. Washington, DC.

EPA (2000c) Characterization of Municipal Solid Waste in the United States: Source Data on the 1999 Update. Report No. EPA530-F-00-024. U.S. Environmental Protection Agency, Office of Solid Waste, EPA. Washington, DC.

EPA (1999) Characterization of Municipal Solid Waste in the United States: 1998 Update. Report No. EPA530-R-99-021. U.S. Environmental Protection Agency, Office of Solid Waste, EPA. Washington, DC.

EPA (1998) Greenhouse Gas Emissions from Management of Selected Materials in Municipal Solid Waste. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Resposne, Washington, DC, EPA530-R-98-013.

EPA (1997) Compilation of Air Pollutant Emission Factors, AP-42, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC. October.

FEB (2000) as reported in "Facts & Figures for the Chemical Industry," *Chemical and Engineering News*, Vol. 78 (26), June 26, 2000. Fiber Economics Bureau. Washington, DC. Available online at http://www.fibersource.com/f-info/fiber%20production.htm>.

Glenn, Jim (1999) "11th Annual BioCycle Nationwide Survey: The State of Garbage in America." *BioCycle*, April 1999. JG Press, Emmaus, PA.

IISRP (2000) as reported in "Facts & Figures for the Chemical Industry," *Chemical and Engineering News*, Vol. 78 (26), June 26, 2000. International Institute of Synthetic Rubber Producers. Houston, Texas. Available online in IISRP's February 18, 2000, News Release: http://www.iisrp.com/Press%20Releases/ASPR2000-2004.PDF>.

Marland, G. and Rotty, R.M. (1984) "Carbon dioxide emissions from fossil fuels: a procedure for estimation and results for 1950-1982." *Tellus*. 36B, 4, 232-261.

Olivier, J. G. J. (1993) Working Group Report: Nitrous Oxide Emissions from Fuel Combustion and Industrial Processes. In Van Amstel, A. R. (ed) Proc. Of the International Workshop Methane and Nitrous Oxide: Methods in National Emission Inventories and Options for Control, Amersfoort (NL), 3-5 February.

STMC (2000) *Scrap Tire Facts and Figures*. Scrap Tire Management Council of the Rubber Manufacturers Association. Washington, DC. Downloaded from http://www.rma.org/scrapfctn.html July 26, 2000.

STMC (1999) *Scrap Tire Use/Disposal Study 1998/1999 Update Executive Summary*. Scrap Tire Management Council of the Rubber Manufacturers Association. Washington, DC. Published September 15, 1999. Downloaded from http://www.rma.org/excsumn.html, July 26, 2000.

Watanabe, M., Sato, M., Miyazaki, M. and Tanaka, M. (1992) *Emission Rate of N₂O from Municipal Solid Waste Incinerators*. NIRE/IFP/EPA/SCEJ 5th International Workshop on N₂O Emissions, July 1-3, 1992. Tsukuba, Japan, Paper 3-4.

Wastewater Treatment

EPA (1999) *Kraft Pulp Mill Compliance Assessment Guide* (CAA, CWA, RCRA, and EPCRA). EPA/310-B-99-001. United States Environmental Protection Agency, Office of Compliance, Washington, DC. May, 1999.

EPA (1997a) Supplemental Technical Development Document for Effluent Limitations Guidelines and Standards for the Pulp, Paper, and Paperboard Category. United States Environmental Protection Agency, Office of Water. EPA/821-R-97-011, Washington, DC, October, 1997.

EPA (1997b) Estimates of Global Greenhouse Gas Emissions from Industrial and Domestic Wastewater Treatment. United States Environmental Protection Agency, Office of Policy, Planning, and Evaluation. EPA-600/R-97-091, Washington, DC, September, 1997.

EPA (1993) Development Document for the Proposed Effluent Limitations Guidelines and Standards for the Pulp, Paper and Paperboard Point Source Category. EPA-821-R-93-019. United States Environmental Protection Agency, Office of Water, Washington, DC, October, 1993.

IPCC (2000) IPCC Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories, May, 2000.

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Lockwood-Post (1992-1999) *Lockwood-Post's Directory of Pulp*, Paper and Allied Trades, Miller-Freeman Publications, San Francisco, CA.

Metcalf & Eddy, Inc. (1972) Wastewater Engineering: Collection, Treatment, Disposal, McGraw-Hill: New York.

NCASI (2000) Letter from Douglas A. Barton, Regional Manager of the National Council of Air and Stream Improvement, Inc., Northwest Regional Center, Lowell, MA, December 8, 2000.

U.S. Census Bureau (2000) "Monthly estimates of the United States Population: April 1, 1980 to July 1, 2000." Population Estimates Program, Population Division, U.S. Census Bureau, Washington, DC. (Available on the Internet at http://www.census.gov/population/estimates/nation/intfile1-1.txt (Accessed July, 24, 2000).

Human Sewage

FAO (2000) FAOSTAT Statistical Database, United Nations Food and Agriculture Organization. (Available on the Internet at http://apps.fao.org/lim500/nph-wrap.pl?FoodBalanceSheet&Domain=FoodBalanceSheet (Accessed July 25, 2000)).

IPCC/UNEP/OECD/IEA (1997) Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Metcalf and Eddy, Inc. (1972) Wastewater Engineering: Collection, Treatment, Disposal, McGraw-Hill: New York: p. 241.

U.S. Census Bureau (2000) Monthly Estimates of the United States Population: April 1, 1980 to July 1, 1999, Population Estimates Program, Population Division, U.S. Census Bureau, Washington, DC. (Available on the Internet at http://www.census.gov/population/estimates/nation/intfile1-1.txt (Accessed July 24, 2000).

Waste Sources of Criteria Pollutants

EPA (2000) *National Air Pollutant Emissions Trends Report, 1900-1999*, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.

EPA (1997) Compilation of Air Pollutant Emission Factors, AP-42, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, October.